



PATENT #11  
ECL

ATTORNEY DOCKET NO. 04520/016002

Certificate of Mailing: Date of Deposit: December 14, 2006

I hereby certify under 37 C.F.R. § 1.8(a) that this correspondence is being deposited with the United States Postal Service as **first class mail** with sufficient postage on the date indicated above and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, Attention: Certificate of Correction Branch.

Jeremy Waterman  
Printed name of person mailing correspondence

Jeremy Waterman  
Signature of person mailing correspondence

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Littlefield et al.	Confirmation No.:	5377
Serial No.:	09/334,488	Art Unit:	1625
Filed:	June 16, 1999	Examiner:	A. Owens
Patent No.:	6,214,865 B1	Customer No.:	21559
Issued:	April 10, 2001		
Title:	Macrocyclic Analogs and Methods of Their Use and Preparation		

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450  
Attention: Certificate of Correction Branch

12/19/2006 BABRAHA1 00000023 09334488

01 FC:1811

100.00 DP

REQUEST FOR CERTIFICATE OF CORRECTION  
UNDER 37 C.F.R. § 1.322 AND 37 C.F.R. § 1.323

**Certificate**  
**DEC 20 2006**  
**of Correction**

Applicants hereby request that a Certificate of Correction be issued in the patent identified above.

Applicants' representative met with Examiner Amelia Owens to discuss the corrections to be made in this case on October 25, 2006.

The Applicant errors to be corrected are of a minor, typographical nature, occurred in good faith, and are described in detail on the enclosed Form PTO 1050. In addition to Applicant

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errors, this request concerns Patent Office errors, which are also described on the enclosed Form PTO 1050.

In view of the above, Applicants request that this submission be considered as soon as possible.

Enclosed is a check for \$100.00 in payment of the fee set forth in 37 C.F.R. § 1.20(a). If there are any other charges or any credits, please apply them to Deposit Account No. 03-2095.

Respectfully submitted,

Date: December 14, 2006

Susan M. Michaud  
Susan M. Michaud, Ph.D.  
Reg. No. 42,885

Clark & Elbing LLP  
101 Federal Street  
Boston, MA 02110  
Telephone: 617-428-0200  
Facsimile: 617-428-7045

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Respectfully submitted,

Date: November 26, 2007

Susan M. Michaud

Susan M. Michaud, Ph.D.

Reg. No. 42,885

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101 Federal Street  
Boston, MA 02110  
Telephone: 617-428-0200  
Facsimile: 617-428-7045

# UNITED STATES PATENT AND TRADEMARK OFFICE

## CERTIFICATE OF CORRECTION

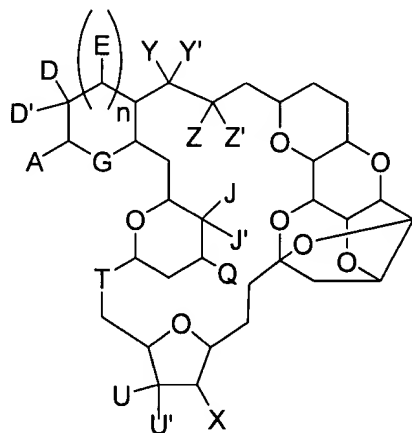
PATENT NO. 6,214,865  
 DATED April 10, 2001  
 INVENTORS Littlefield et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

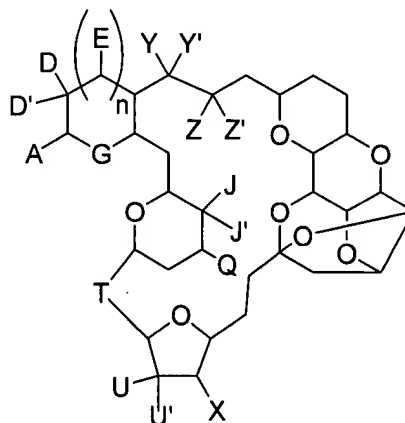
On the cover sheet: replace "Londonberry" with --Londonderry--.

Column 1,  
 Line 12: replace "Lissondendryx sp." with --Lissodendoryx sp.--.

Column 1,  
 Line 30: the drawing labeled "Formula (I)"



should be



Column 2,  
 Line 4: replace "2-aminoethoxy" with --2-aminoethoxy--.

Column 2,  
 Line 8: replace "2,3-dihydroxy-4-perfluorobutyl" with  
 --2,3-dihydroxy-4-perfluorobutyl--.

Column 3,  
 Line 54: replace "4H-quinolixinyll," with --4H-quinolizinyll--.

### MAILING ADDRESS OF SENDER:

Susan M. Michaud  
 Clark & Elbing LLP  
 101 Federal Street  
 Boston, MA 02110  
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PATENT NO. 6,214,865  
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**UNITED STATES PATENT AND TRADEMARK OFFICE**  
**CERTIFICATE OF CORRECTION**

PATENT NO. 6,214,865  
 DATED April 10, 2001  
 INVENTORS Littlefield et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 3,  
 Line 55: replace "quinazolyvinyl" with --quinazolinyl--.

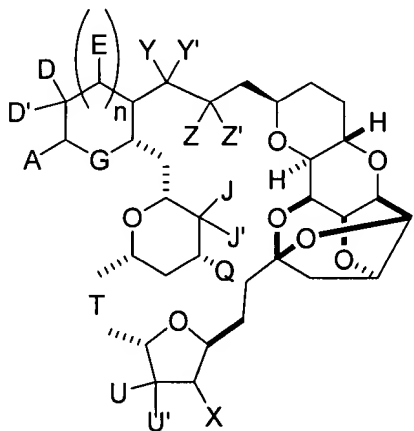
Column 4,  
 Line 17: replace "embodiment includes" with  
 --embodiments include--.

Column 4,  
 Lines 22-23: replace " $\text{NR}_2(\text{CO})\text{R}_1$ ,  $\text{NR}_2(\text{CO})\text{R}_1$ " with -- $\text{NR}_2(\text{CO})\text{R}_1$ ,--.

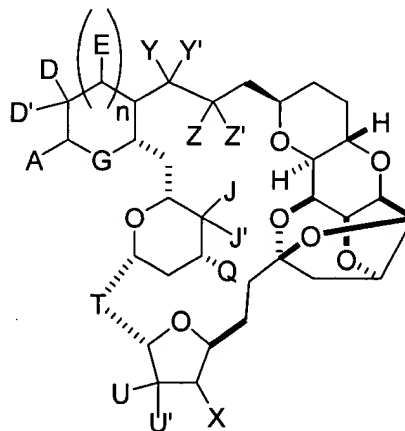
Column 4,  
 Line 40: replace "B13939" with --B1939--.

Column 4,  
 Line 57: replace ",B13939" with --, B1939--.

Column 5,  
 Line 20: the drawing labeled "Formula 1-A"



should be



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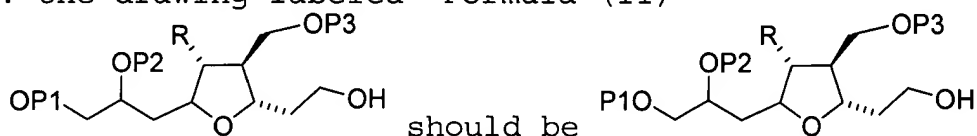
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PATENT NO. 6,214,865  
DATED April 10, 2001  
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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 5,  
Line 42: the drawing labeled "Formula (II)"



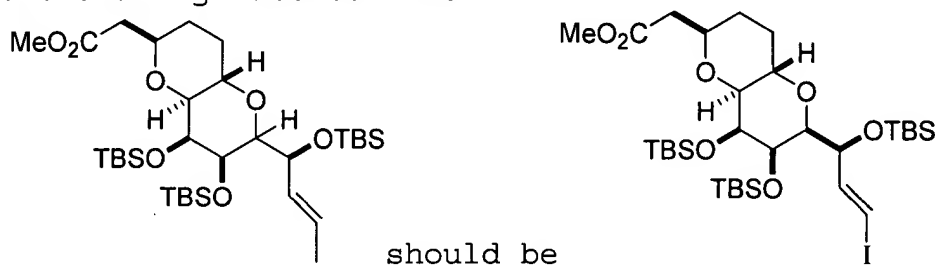
Column 5,  
Line 63: replace "9-fluorenylinethyl" with --9-fluorenylmethyl--.

Column 6,  
Line 9: replace "O-nitrobenzyl" with --o-nitrobenzyl--.

Column 6,  
Line 26: replace "1,1,3,3-tetra-isopropylidisiloxanylidene" with  
--1,1,3,3-tetra-isopropylidisiloxanylidene--.

Column 6,  
Line 52: replace "Scola, . M." with --Scola, P.M.--.

Column 7,  
Line 1: the drawing labeled "XF3"



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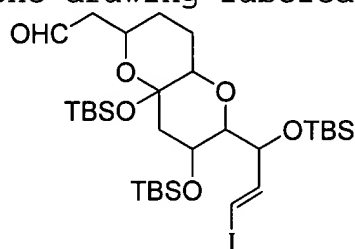
Column 7,  
Line 42: replace "p-F—PhMgBr" with --p-F-PhMgBr--.

Column 8,  
Line 2: replace "furnished key fragment 1" with  
--furnished key fragment F1--.

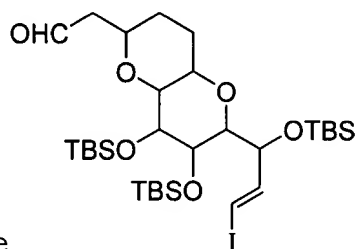
Column 8,  
Line 8: replace "fluorinated key fragment 1 was obtained" with  
--fluorinated key fragment F1 was obtained--.

Column 8,  
Line 18: replace "homoallylic alcohol 33" with  
--homoallylic alcohol 33a--.

Column 8,  
Line 55: the drawing labeled "F-3"



should be



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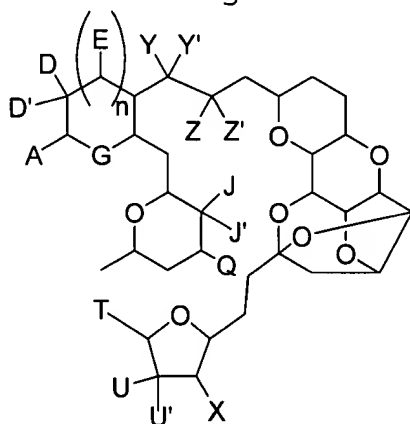


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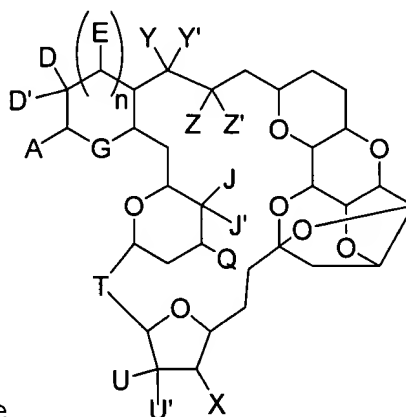
PATENT NO. 6,214,865  
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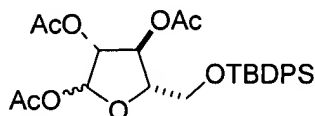
Column 9,  
Line 2: the drawing labeled "4, Formula (I)"



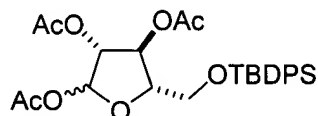
should be



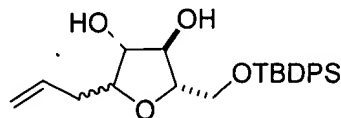
Column 9,  
Line 55: the drawing labeled "2"



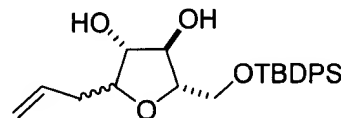
should be



Column 9,  
Line 60: the drawing labeled "4a,4b"



should be



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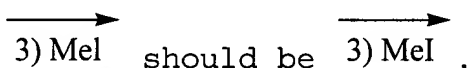
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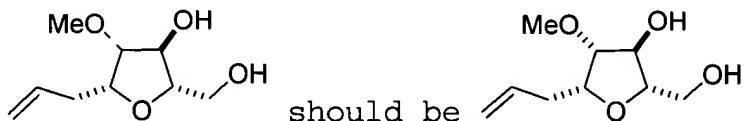
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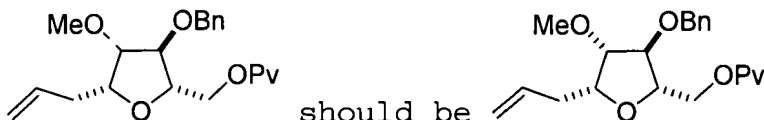
Column 9,  
Line 60: the reagent



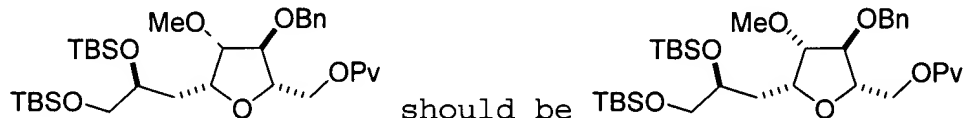
Column 10,  
Line 1: the drawing labeled "7"



Column 10,  
Line 10: the drawing labeled "9"



Column 10,  
Line 15: the drawing labeled "11"



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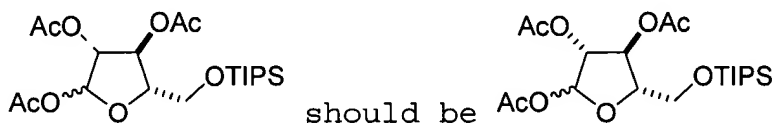
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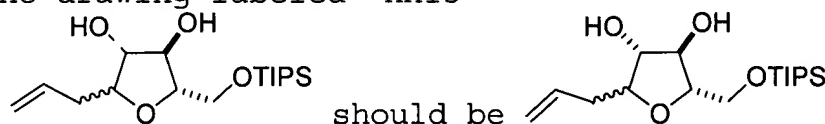
Column 10,  
Line 21: the reagent

$\xrightarrow{1) \text{ MPMOTCl}}$  should be  $\xrightarrow{1) \text{ MPMOTCl}}$  .

Column 10,  
Line 45: the drawing labeled "XX14"



Column 10,  
Line 52: the drawing labeled "XX15"



Column 10,  
Line 55: the reagent

$\xrightarrow{3) \text{ MeI}}$  should be  $\xrightarrow{3) \text{ MeI}}$  .

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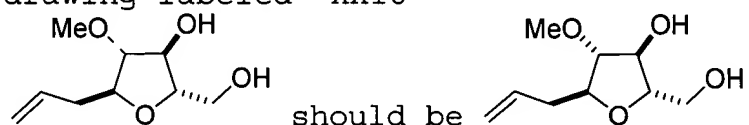
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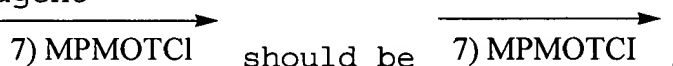
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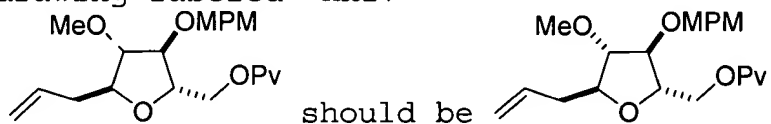
Column 10,  
Line 60: the drawing labeled "XX16"



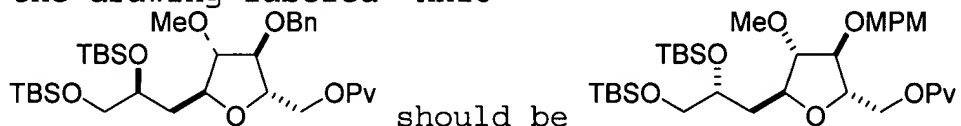
Column 10  
Line 63: the reagent



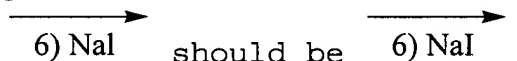
Column 11,  
Line 1: the drawing labeled "XX17"



Column 11,  
Line 9: the drawing labeled "XX18"



Column 11,  
Line 16: the reagent



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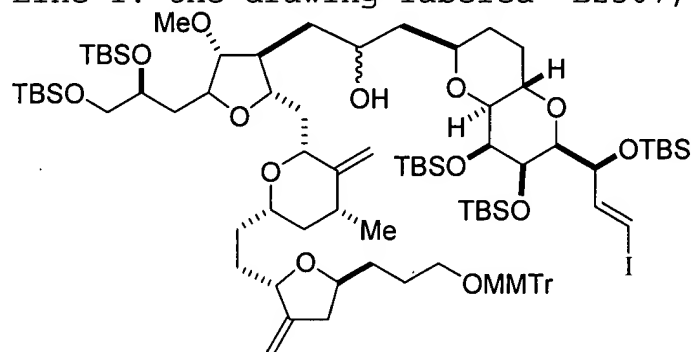
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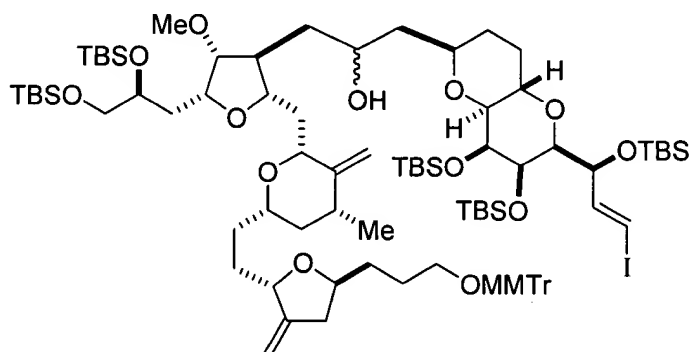
Column 12,  
Line 1: the reagent

7) MPMOTCl → should be 7) MPMOTCI .

Column 13,  
Line 1: the drawing labeled "B2307, B2308"



should be



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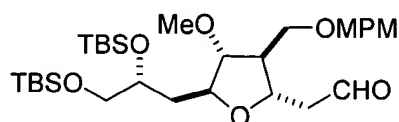
PATENT NO. 6,214,865

DATED April 10, 2001

INVENTORS Littlefield et al.

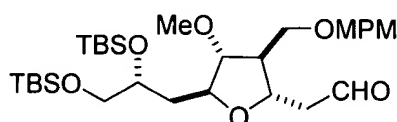
It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 13, Line 20: the drawing labeled "X20" should be labeled --XX20-- as follows:



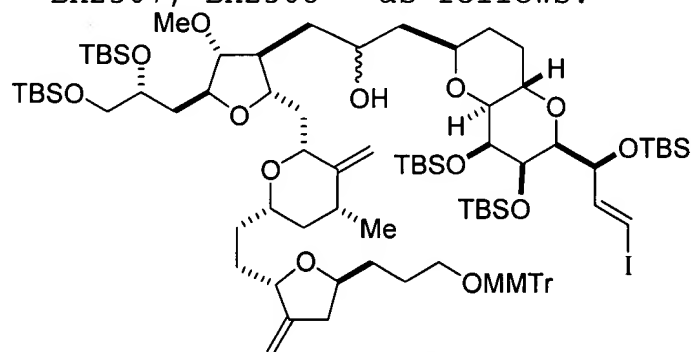
X20

should be



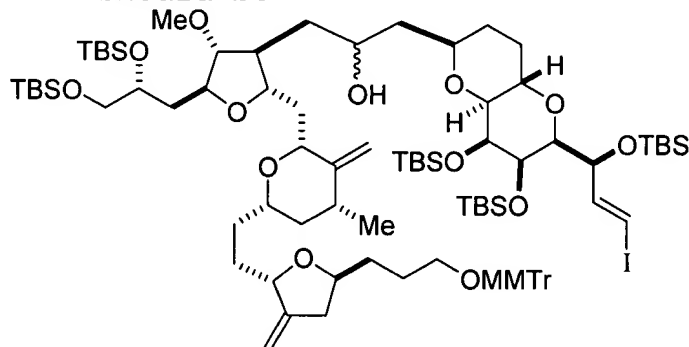
XX20

Column 15, Line 1: the drawing labeled "BX2308" should be labeled --BX2307, BX2308-- as follows:



BX2308

should be



BX2307, BX2308

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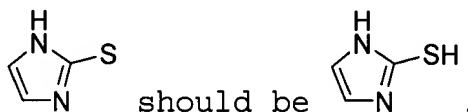
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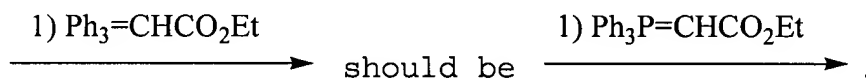
PATENT NO. 6,214,865  
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INVENTORS Littlefield et al.

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Column 21,  
Line 1: the reagent



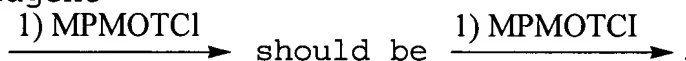
Column 21,  
Line 60: the reagent



Column 22,  
Line 60: the reagent



Column 23,  
Line 45: the reagent



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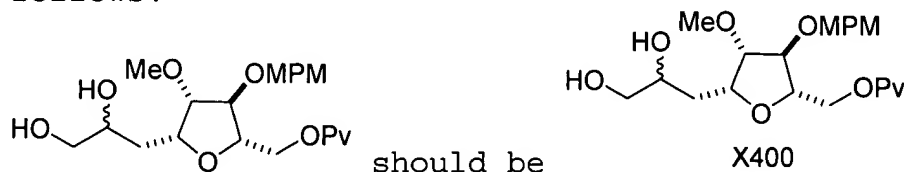
# UNITED STATES PATENT AND TRADEMARK OFFICE

## CERTIFICATE OF CORRECTION

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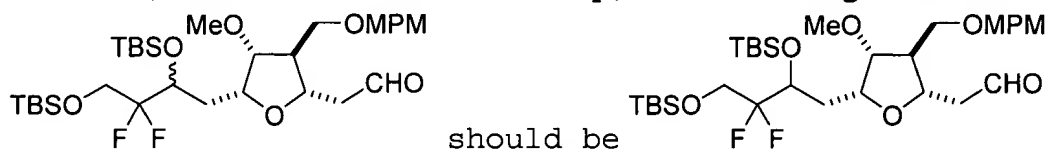
It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 24,  
 Line 20: the unlabeled drawing should be labeled as --X400-- as follows:



Column 24,  
 Line 45: the reagent  
 $\xrightarrow{1) \text{ MPMOTCl}}$  should be  $\xrightarrow{1) \text{ MPMOTCl}}$ .

Column 24,  
 Line 55: the drawing labeled "X412" should be labeled --X412A, X412B--. Additionally, the drawing labeled "X412"



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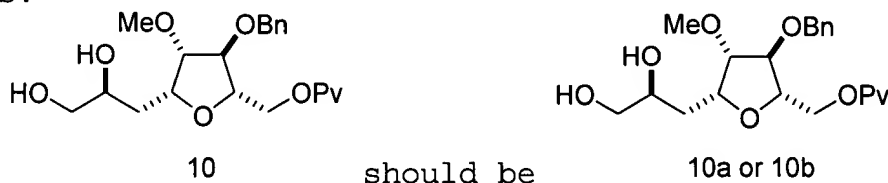


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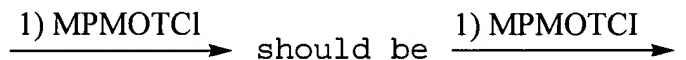
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Column 25,  
Line 2: the drawing labeled "10" should be labeled --10a or 10b--  
as follows:



Column 25,  
Line 34: the reagent



Column 26,  
Line 15: the reagent



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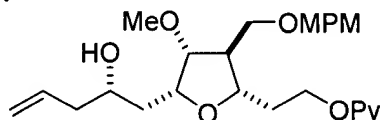
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INVENTORS Littlefield et al.

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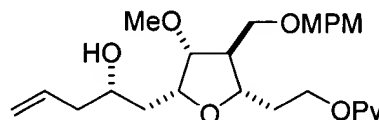
Column 26,

Line 35: the drawing labeled "33" should be labeled --33a-- as follows:



33

should be



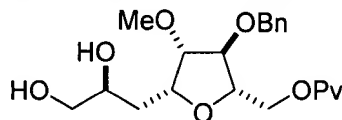
33a

Column 29,

Line 63: replace "BF<sub>3</sub>·OEt<sub>2</sub>" with --BF<sub>3</sub>·OEt<sub>2</sub>--.

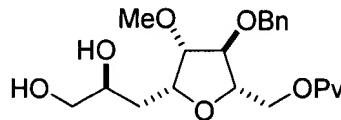
Column 32,

Line 35: the drawing labeled "10" should be labeled --10a or 10b-- as follows:



10

should be



10a or 10b

Column 32,

Line 39: replace "Diol 10" with --Diol 10a or 10b--.

Column 32,

Line 44: replace "Na<sub>2</sub>S<sub>2</sub>O<sub>5</sub>·5 H<sub>2</sub>O" with --Na<sub>2</sub>S<sub>2</sub>O<sub>5</sub>·5H<sub>2</sub>O--.

Column 32,

Line 49: replace "diol 10" with --diol 10a or 10b--.

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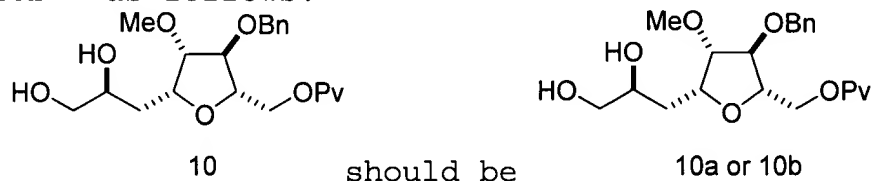
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UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION

PATENT NO. 6,214,865  
DATED April 10, 2001  
INVENTORS Littlefield et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 32,  
Line 55: the drawing labeled "10" should be labeled  
--10a or 10b-- as follows:



Column 32,  
Line 66: replace "diol 10" with --diol 10a or 10b--.

Column 34,  
Line 20: replace "NaBO<sub>3</sub>·4 H<sub>2</sub>O" with --NaBO<sub>3</sub>·4H<sub>2</sub>O--.

Column 34,  
Line 45: replace "0.021 mmol" with --0.021 mol--.

Column 35,  
Line 5: the reagent  
 $\xrightarrow{\text{MPMOTCI}}$  should be  $\xrightarrow{\text{MPMOTCI}}$ .

Column 35,  
Line 18: replace "BF<sub>3</sub>·OEt<sub>2</sub>" with --BF<sub>3</sub>·OEt<sub>2</sub>--.

Column 35,  
Line 22: replace "BF<sub>3</sub>·OEt<sub>2</sub>" with --BF<sub>3</sub>·OEt<sub>2</sub>--.

Column 36,  
Line 53: replace "NaBO<sub>3</sub>·4 H<sub>2</sub>O" with --NaBO<sub>3</sub>·4H<sub>2</sub>O--.

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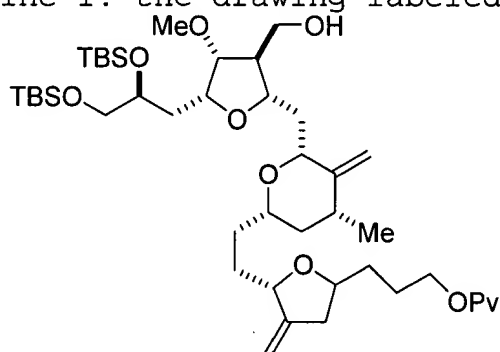
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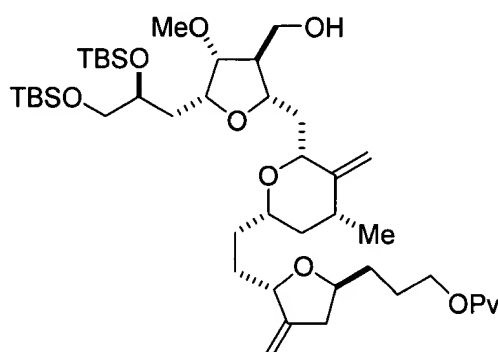
PATENT NO. 6,214,865  
DATED April 10, 2001  
INVENTORS Littlefield et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

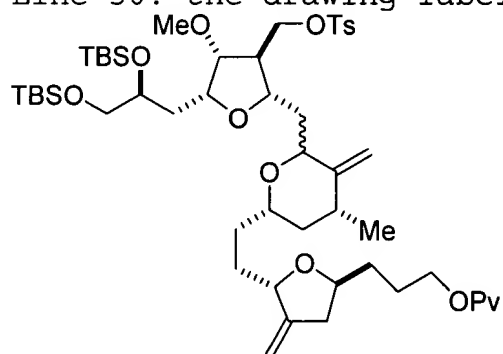
Column 39,  
Line 1: the drawing labeled "B2317"



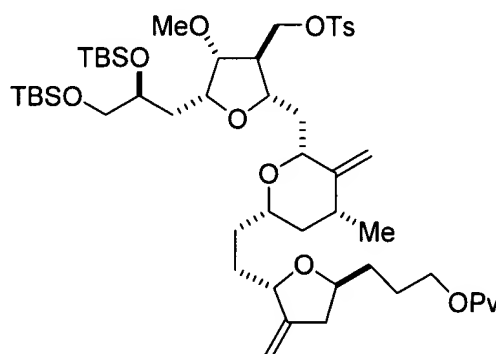
should be



Column 39,  
Line 50: the drawing labeled "B2316"



should be



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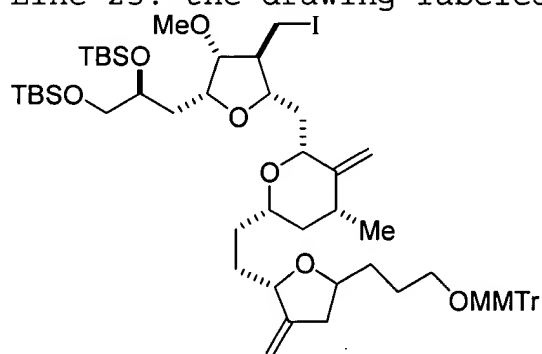
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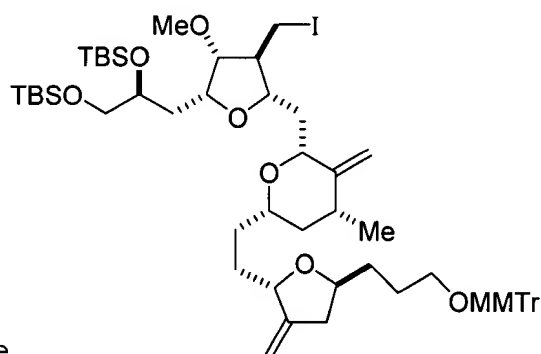
PATENT NO. 6,214,865  
DATED April 10, 2001  
INVENTORS Littlefield et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 41,  
Line 25: the drawing labeled "B2313"



should be



Column 42,  
Line 17: replace "B2308" with --B2307 and B2308--.

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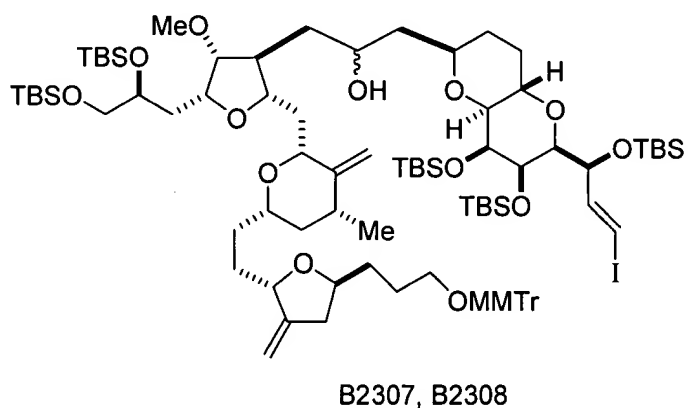
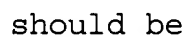
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Column 42,  
Line 35: the drawing labeled "B2308" should be labeled  
--B2307,B2308-- as follows:



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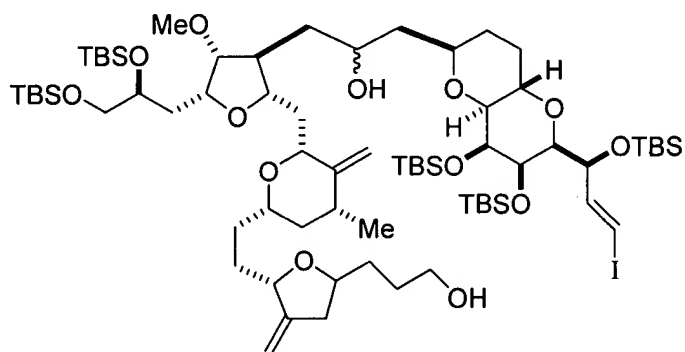
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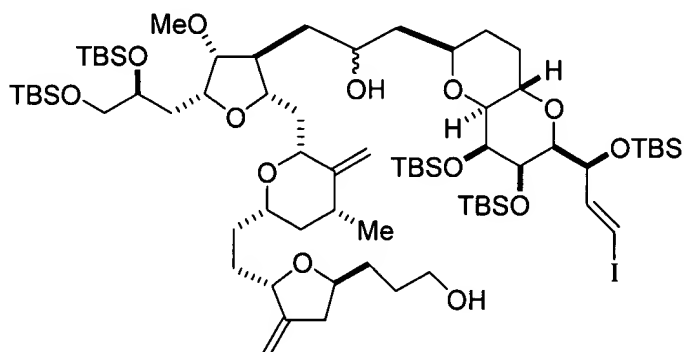
PATENT NO. 6,214,865  
DATED April 10, 2001  
INVENTORS Littlefield et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 42,  
Line 45: the drawing labeled "B2305, B2306"



should be



Column 44,  
Line 21: replace "alcohol, 2.4 g mg," with --alcohol, 2.4 g,--.

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PATENT NO. 6,214,865  
DATED April 10, 2001  
INVENTORS Littlefield et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 44,  
Line 22: replace "triflic anhydride" with  
--methanesulfonyl anhydride--.

Column 44,  
Line 24: replace "chromatographed" with --chromatographed--.

Column 44,  
Line 61: replace "DMF, 0.06 mL," with -DMF, 0.5 mL,--.

Column 45,  
Lines 39-40: replace  
"N-methylmorpholine oxide (NMO), and then a solution of 1.02 g,  
tetrapropylammonium perruthenate"  
with  
--N-methylmorpholine oxide (NMO) (1.02 g), and then a solution of  
tetrapropylammonium perruthenate--.

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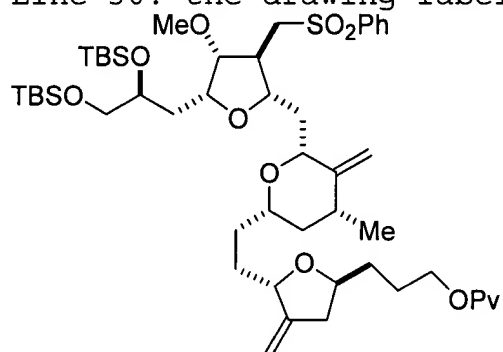


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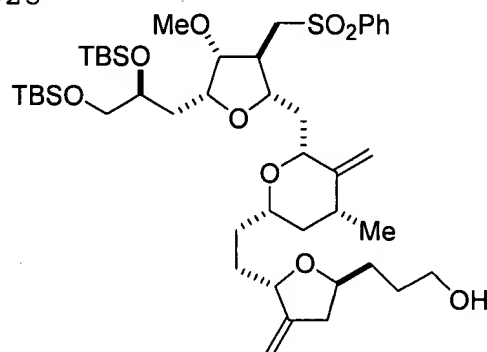
PATENT NO. 6,214,865  
DATED April 10, 2001  
INVENTORS Littlefield et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 46,  
Line 30: the drawing labeled "ER804028"



should be



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PATENT NO. 6,214,865  
DATED April 10, 2001  
INVENTORS Littlefield et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 49,  
Line 26: replace "SmI reagent, 0.05 mL, as added" with  
--SmI<sub>2</sub> reagent, 0.05 mL, was added--.

Column 54,  
Line 21: replace (Schemes 3 and 5) with --(Schemes 4 and 6)--.

-----  
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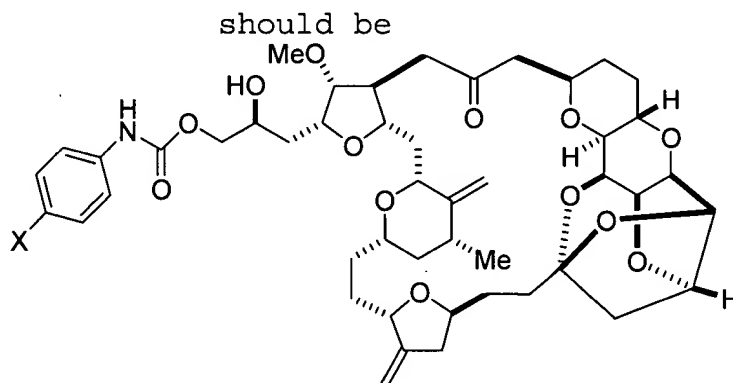
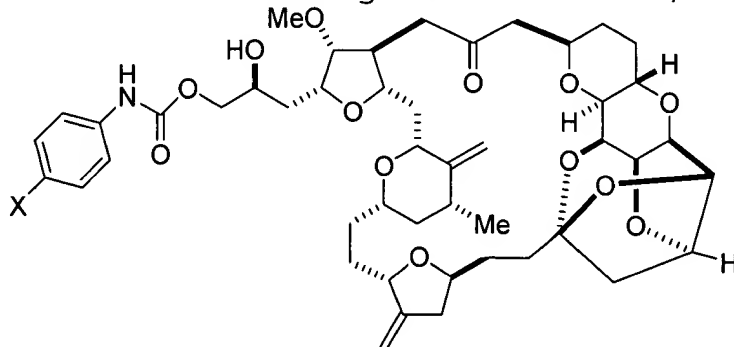
PATENT NO. 6,214,865  
DATED April 10, 2001  
INVENTORS Littlefield et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 54,  
Lines 22-23: replace (see schemes 4 and 5) with  
--(see schemes 3 and 5)--.

Column 56,  
Line 40: the reagent  
 $\xrightarrow{\text{p-F-PhCH}_2\text{Br}}$  should be  $\xrightarrow{\text{p-F-PhCH}_2\text{Br}}$ .

Column 59,  
Line 1: the drawing labeled "B1984, B1990, B1992"



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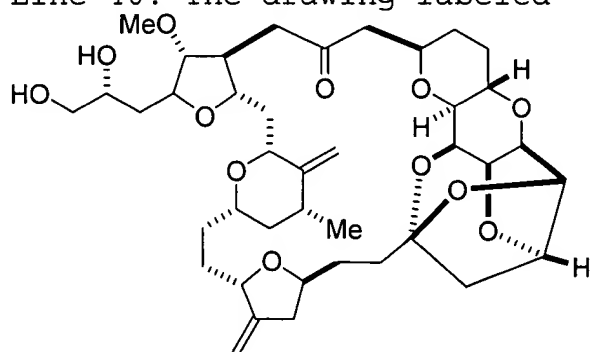
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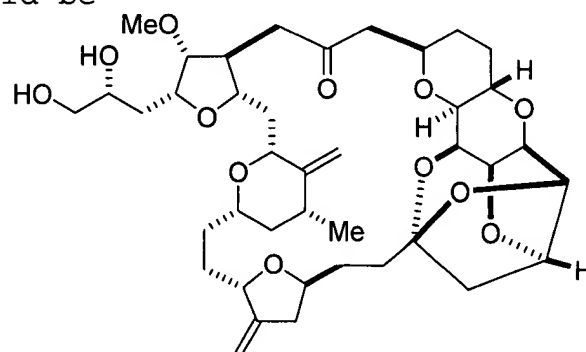
PATENT NO. 6,214,865  
DATED April 10, 2001  
INVENTORS Littlefield et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 60,  
Line 40: The drawing labeled "B2042"



should be



Column 62,  
Lines 7-8: replace "Found: 753.3969" with --Found: 755.3969--.

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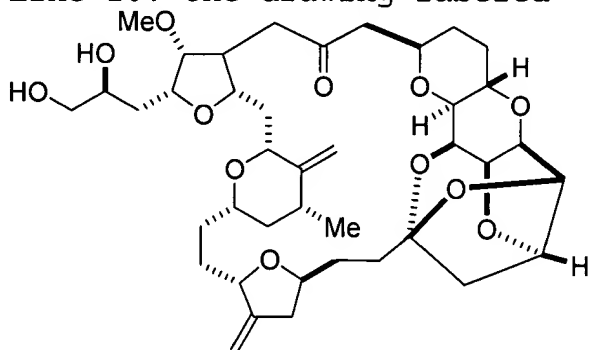
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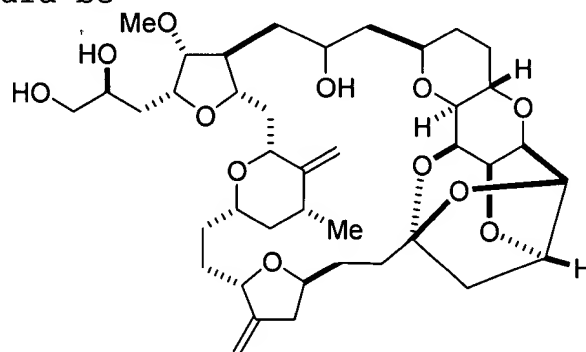
PATENT NO. 6,214,865  
DATED April 10, 2001  
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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 62,  
Line 10: the drawing labeled "B1896, B1897"



should be



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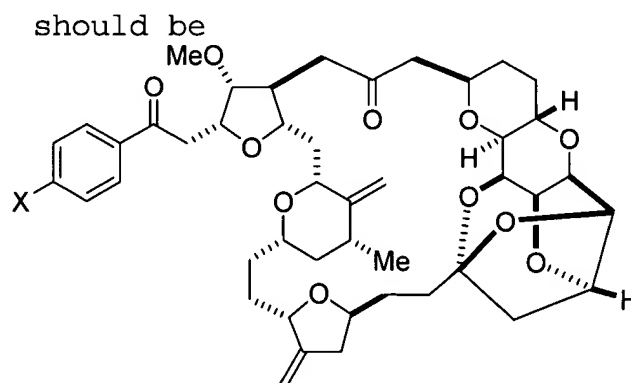
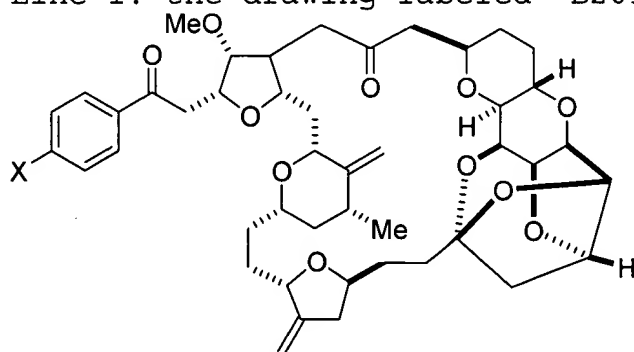
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PATENT NO. 6,214,865  
DATED April 10, 2001  
INVENTORS Littlefield et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 67,  
Line 1: the drawing labeled "B2011, B2008"



Column 71,  
Line 41: replace "897.3521. Found: 897.3533." with  
--879.3521. Found: 879.3533.--.

Column 72,  
Line 45: the reagent  
1) TBDPSCI → should be 1) TBDPSCI → .

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PATENT NO. 6,214,865  
DATED April 10, 2001  
INVENTORS Littlefield et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 72,  
Line 45: the reagent

→  
3) DBAF      should be      3) TBAF      →

Column 78,  
Line 30: replace " $C_{50}H_{64}N_2O_{12}+Na$ " with -- $C_{50}H_{64}N_2O_{13}+Na$ --.

Column 78,  
Line 46: replace " $C_{49}H_{65}NO_{13}+Na$ " with -- $C_{50}H_{69}NO_{15}+Na$ --.

Column 79,  
Line 25: replace "a 1:9 mixture" with --a 9:1 mixture--.

Column 79,  
Line 28: replace "Found: 884.4012" with --Found: 882.4012--.

Column 81,  
Line 40: the reagent

1)  $Ph_3P=CHCO_2Et$       →      should be      1)  $Ph_3P=CHCO_2Et$       →

Column 83,  
Line 35: the reagent

MPMOTCI      →      should be      MPMOTCI      →

Column 83,  
Line 54: replace " $BF_3 \cdot OEt_2$ " with -- $BF_3 \cdot OEt_2$ --.

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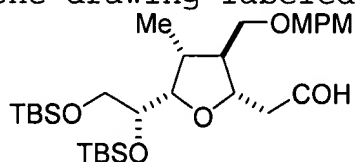
PATENT NO. 6,214,865  
DATED April 10, 2001  
INVENTORS Littlefield et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

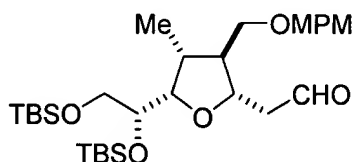
Column 84,  
Line 28: replace "TsOH.H<sub>2</sub>O" with --TsOH·H<sub>2</sub>O--.

Column 84,  
Line 30: replace "TsOH.H<sub>2</sub>O" with --TsOH·H<sub>2</sub>O--.

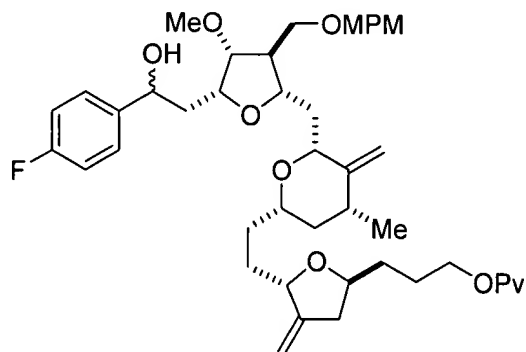
Column 86,  
Line 1: the drawing labeled "114"



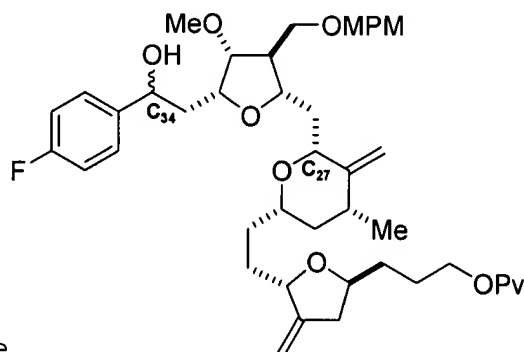
should be



Column 90,  
Line 1: the drawing labeled "203"



should be



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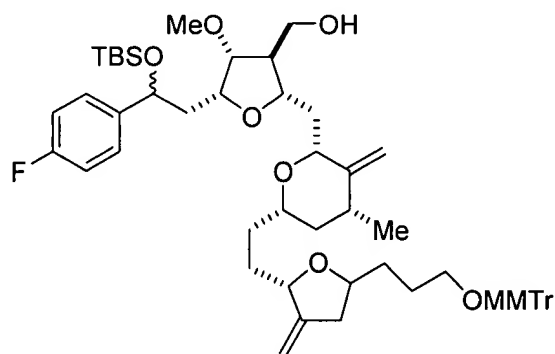


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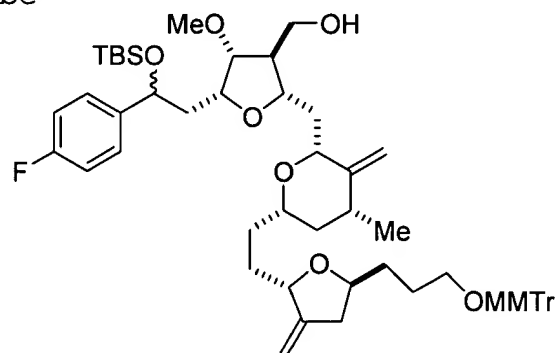
PATENT NO. 6,214,865  
DATED April 10, 2001  
INVENTORS Littlefield et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 93,  
Line 5: the drawing labeled "207"



should be



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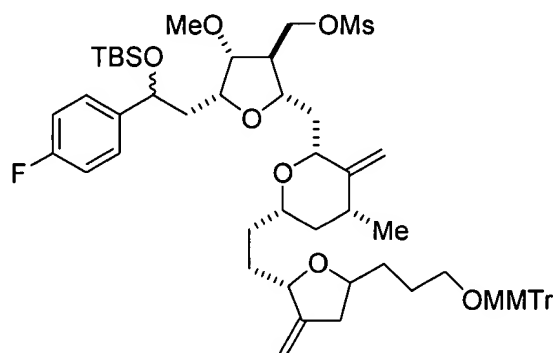
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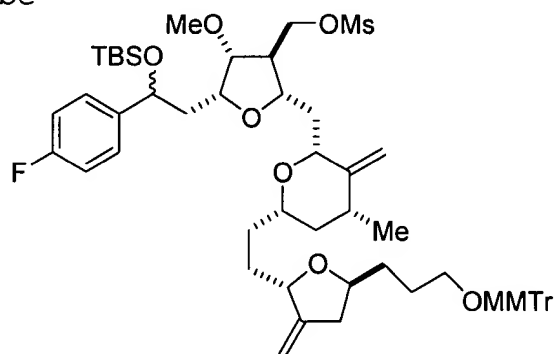
PATENT NO. 6,214,865  
DATED April 10, 2001  
INVENTORS Littlefield et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 93,  
Line 25: the drawing labeled "208A and 208B"



should be



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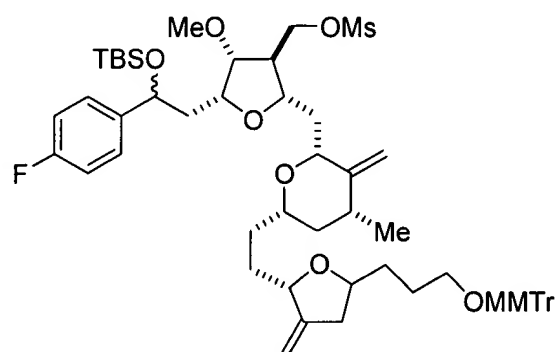
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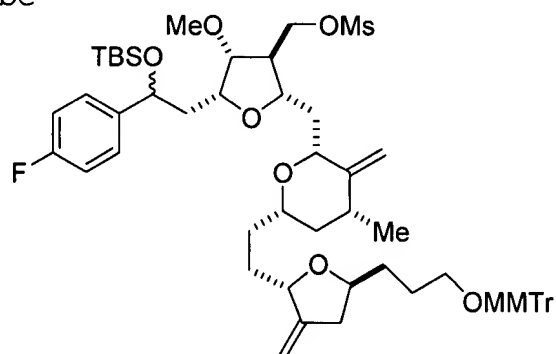
PATENT NO. 6,214,865  
DATED April 10, 2001  
INVENTORS Littlefield et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 93,  
Line 50: the drawing labeled "208A and 208B"



should be



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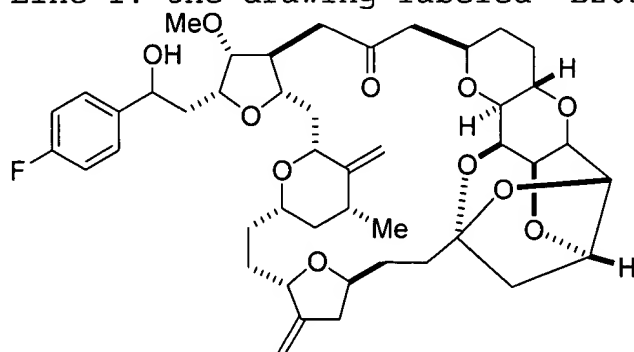
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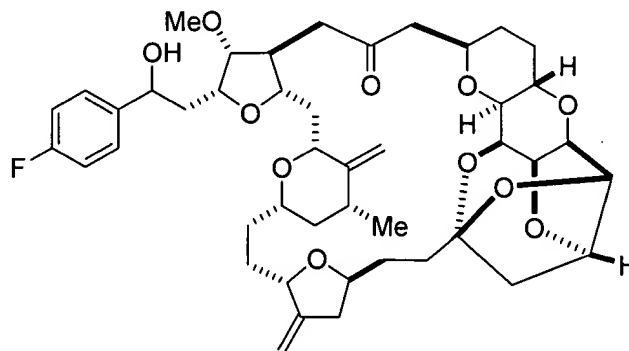
PATENT NO. 6,214,865  
DATED April 10, 2001  
INVENTORS Littlefield et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 94,  
Line 1: the drawing labeled "B2039, B2043"



should be



Column 94,  
Line 43: replace "warn" with --warm--.

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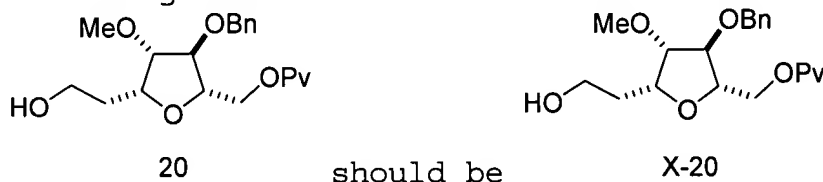
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DATED April 10, 2001  
INVENTORS Littlefield et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 94,  
Line 60: the drawing labeled "20" should be --X-20--as follows:



Column 96,  
Lines 4-5: replace " $\text{NaBO}_3 \cdot 4 \text{H}_2\text{O}$ " with -- $\text{NaBO}_3 \cdot 4 \text{H}_2\text{O}$ --.

Column 96,  
Line 35: the reagent  
 $\xrightarrow{\text{MPMOTCI}}$  should be  $\xrightarrow{\text{MPMOTCI}}$ .

Column 96,  
Line 44: replace " $\text{BF}_3 \cdot \text{OEt}_2$ " with -- $\text{BF}_3 \cdot \text{OEt}_2$ --.

Column 97,  
Line 59: replace " $\text{NaBO}_3 \cdot 4 \text{H}_2\text{O}$ " with -- $\text{NaBO}_3 \cdot 4 \text{H}_2\text{O}$ --.

Column 98,  
Line 58: replace " $\text{BF}_3 \cdot \text{OEt}_2$ " with -- $\text{BF}_3 \cdot \text{OEt}_2$ --.

Column 99,  
Line 50: replace " $\text{Na}_2\text{S}_2\text{O}_5 \cdot 5 \text{H}_2\text{O}$ " with -- $\text{Na}_2\text{S}_2\text{O}_5 \cdot 5 \text{H}_2\text{O}$ --.

MAILING ADDRESS OF SENDER:

Susan M. Michaud  
Clark & Elbing LLP  
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PATENT NO. 6,214,865  
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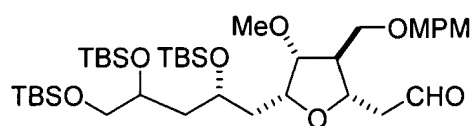
UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION

PATENT NO. 6,214,865  
DATED April 10, 2001  
INVENTORS Littlefield et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

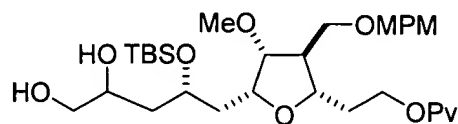
Column 101,

Line 1: replace the drawing labeled "38" with the drawing labeled --35a, 35b-- as follows:



38

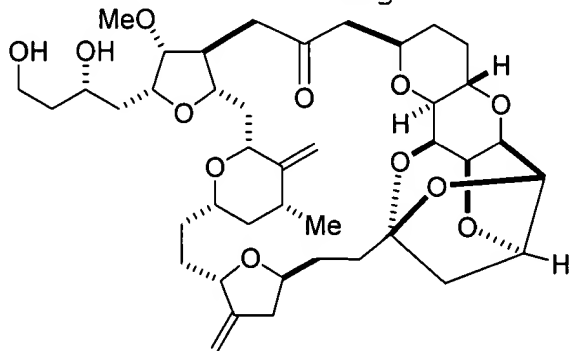
should be



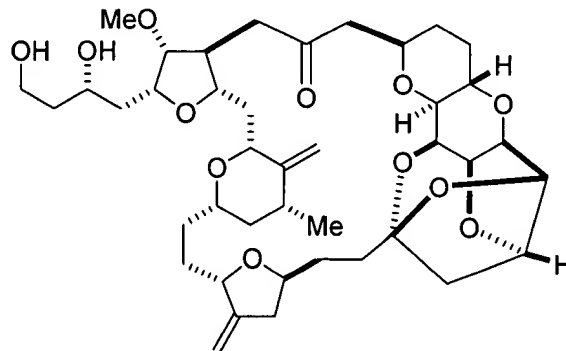
35a, 35b

Column 103,

Line 1: the drawing labeled "B2091"



should be



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PATENT NO. 6,214,865  
DATED April 10, 2001  
INVENTORS Littlefield et al.

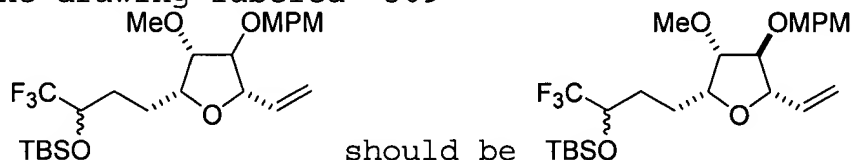
It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 103,

Line 64: replace "NaBO<sub>3</sub>·4 H<sub>2</sub>O" with --NaBO<sub>3</sub>·4H<sub>2</sub>O--.

Column 106,

Line 60: the drawing labeled "309"

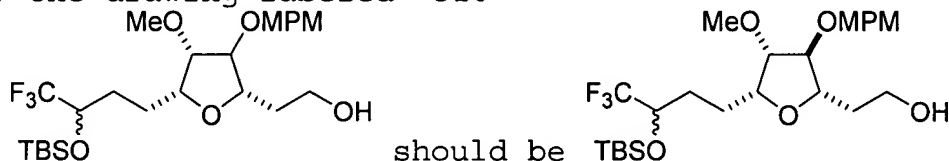


Column 107,

Line 14: replace "NaBO<sub>3</sub>·4 H<sub>2</sub>O" with --NaBO<sub>3</sub>·4H<sub>2</sub>O--.

Column 107,

Line 20: the drawing labeled "310"



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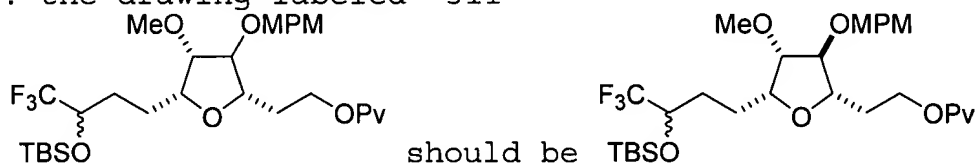
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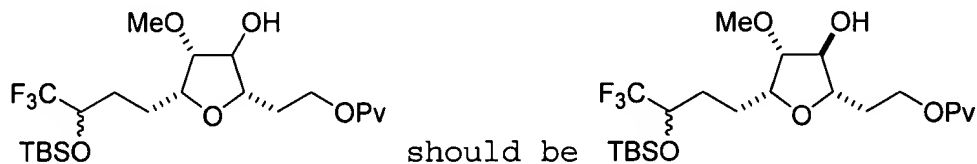
PATENT NO. 6,214,865  
DATED April 10, 2001  
INVENTORS Littlefield et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 107,  
Line 50: the drawing labeled "311"



Column 108,  
Line 12: the drawing labeled "312"



Column 109,  
Line 23: replace "NaBO<sub>3</sub>·4 H<sub>2</sub>O" with --NaBO<sub>3</sub>·4H<sub>2</sub>O--.

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PATENT NO. 6,214,865  
DATED April 10, 2001  
INVENTORS Littlefield et al.

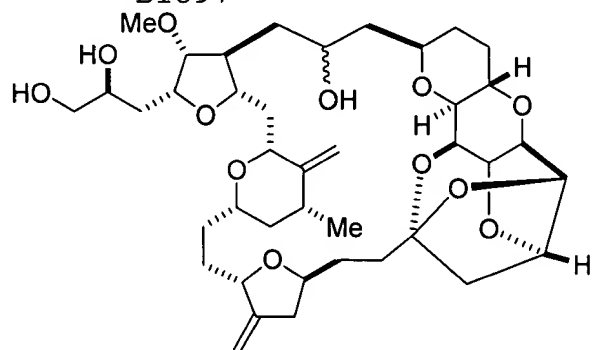
It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 110,  
Line 5: the reagent

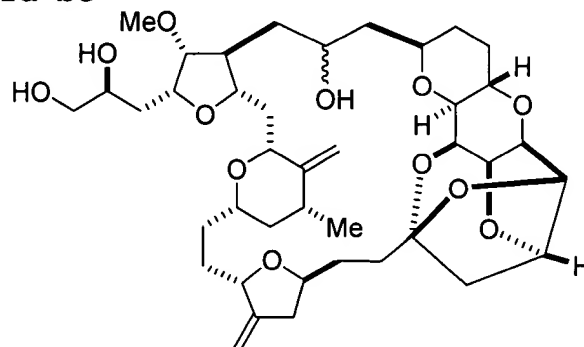
$\xrightarrow{\text{MPMOTCI}}$  should be  $\xrightarrow{\text{MPMOTCI}}$ .

Column 110,  
Line 26: replace " $\text{BF}_3 \cdot \text{OEt}_2$ " with  $--\text{BF}_3 \cdot \text{OEt}_2--$ .

Column 111, Line 31: the drawing labeled "B1897" should be labeled  $--\text{B1896, B1897--}$ . Additionally, the drawing labeled "B1897"



should be



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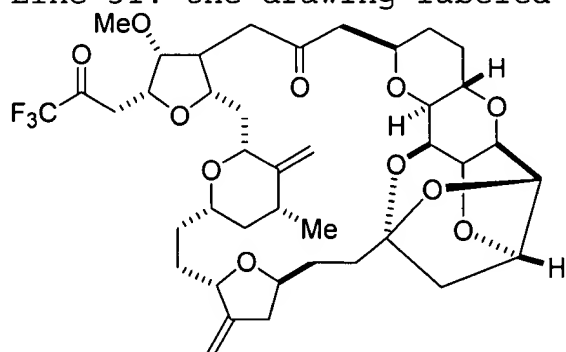
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**CERTIFICATE OF CORRECTION**

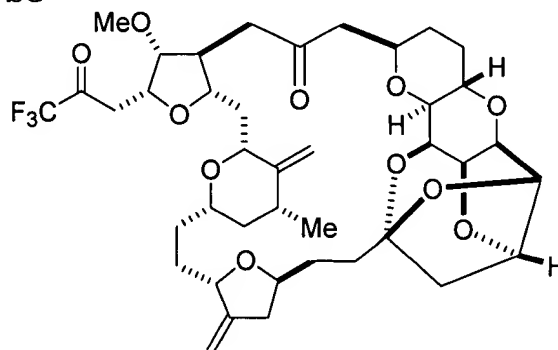
PATENT NO. 6,214,865  
DATED April 10, 2001  
INVENTORS Littlefield et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 112,  
Line 31: the drawing labeled "B1942"



should be



Column 113,  
Line 1: replace "A mixture of B1897" with  
--A mixture of B1896/B1897--.

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**CERTIFICATE OF CORRECTION**

PATENT NO. 6,214,865  
DATED April 10, 2001  
INVENTORS Littlefield et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

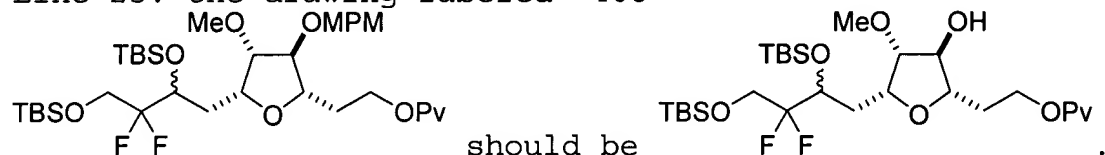
Column 113,  
Line 29: replace "finish" with --furnish--.

Column 113,  
Line 30: replace " $C_{40}H_{55}F_3O_{11} + H$ " with -- $C_{40}H_{53}F_3O_{11} + H$ --.

Column 116,  
Line 49: replace " $NaBO_3 \cdot 4H_2O$ " with -- $NaBO_3 \cdot 4H_2O$ --.

Column 116,  
Lines 51-52: replace " $NaBO_3 \cdot 4H_2O$ " with -- $NaBO_3 \cdot 4H_2O$ --.

Column 117,  
Line 25: the drawing labeled "408"



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PATENT NO. 6,214,865  
DATED April 10, 2001  
INVENTORS Littlefield et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

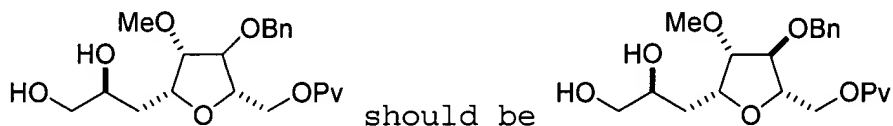
Column 117,  
Line 56: replace "TMF" with --THF--.

Column 118,  
Line 21: replace "NaBO<sub>3</sub>·4H<sub>2</sub>O" with --NaBO<sub>3</sub>·4H<sub>2</sub>O--.

Column 119,  
Line 26: replace "BF<sub>3</sub>·OEt<sub>2</sub>" with --BF<sub>3</sub>·OEt<sub>2</sub>--.

Column 119,  
Lines 42-43: replace  
"412B (46 mg, 36% for 2 steps) as a ~9:1 mixture of C34 isomers"  
with  
--412B:412A (46 mg, 36% for 2 steps) as a ~9:1 mixture of C34  
isomers--

Column 120,  
Line 10: the label in the drawing labeled "10" should be  
--10a or 10b--. Additionally, the drawing labeled "10"



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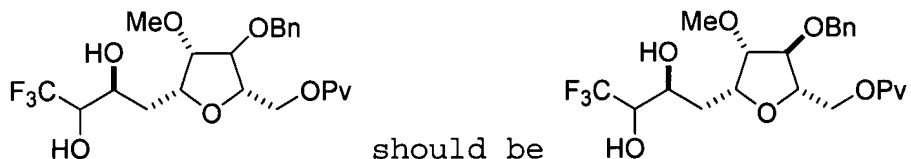
PATENT NO. 6,214,865  
DATED April 10, 2001  
INVENTORS Littlefield et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 120,  
Line 26: replace "diol 10" with --diol 10a or 10b--.

Column 120,  
Line 36: replace "TMF" with --THF--.

Column 121,  
Line 9: the unlabeled drawing should be labeled --501--.  
Additionally, the unlabeled drawing



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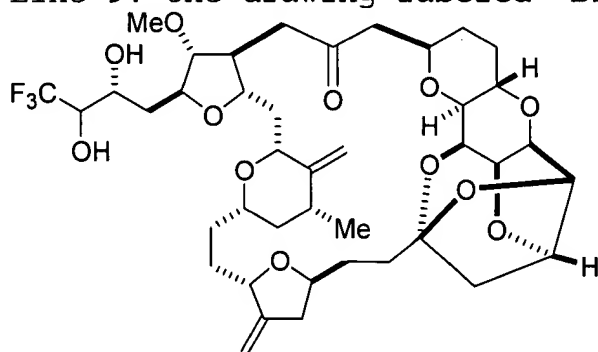
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CERTIFICATE OF CORRECTION

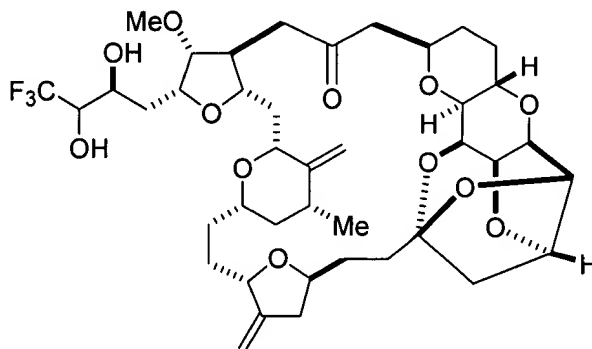
PATENT NO. 6,214,865  
DATED April 10, 2001  
INVENTORS Littlefield et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 122,  
Line 9: the drawing labeled "B1963"



should be



Column 127,  
Line 39: replace "fall range" with --full range--.

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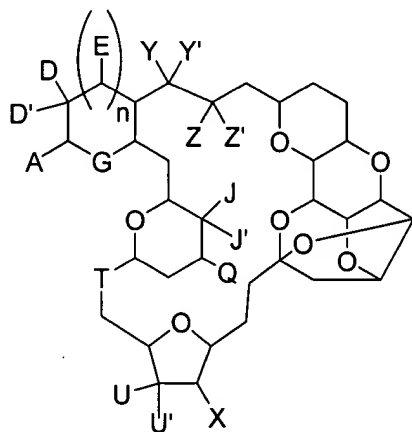
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**CERTIFICATE OF CORRECTION**

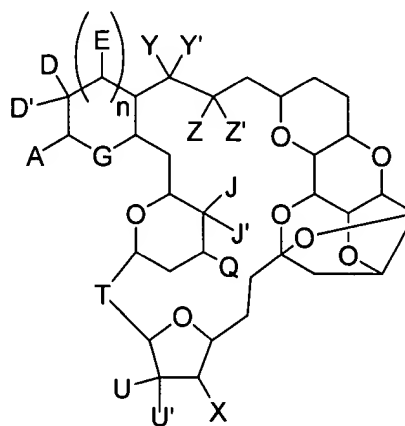
PATENT NO. 6,214,865  
DATED April 10, 2001  
INVENTORS Littlefield et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 129, claim 1  
Line 13: the drawing



should be



Column 130, claim 7  
Line 58: replace "7. The compound of claim 6" with  
--7. The compound of claim 5--.

Column 131, claim 16  
Line 19: replace "16. The compound of claim 6" with  
--16. The compound of claim 5--.

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UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 6,214,865 B1  
APPLICATION NO. : 09/334488  
DATED : April 10, 2001  
INVENTOR(S) : Littlefield et al.

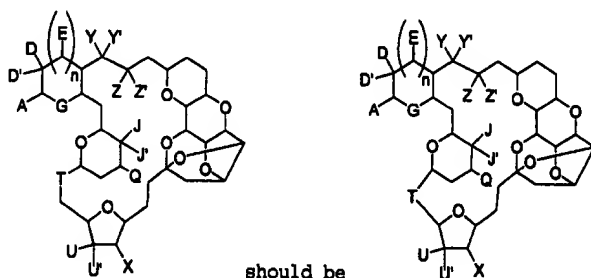
Page 1 of 41

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the cover sheet: replace "Londonberry" with -- Londonderry --.

Column 1,  
Line 12: replace "Lissondendryx sp." with -- Lissodendoryx sp. --.

Column 1,  
Line 30: the drawing labeled "Formula (I)"



Column 2,  
Line 4: replace "2-aminoethoxy" with -- 2-aminoethoxy --.

Column 2,  
Line 8: replace "2,3-dihydroxy-4-perfluorobutyl" with  
-- 2,3-dihydroxy-4-perfluorobutyl --.

Column 3,  
Line 54: replace "4H-quinolixinyI," with -- 4H-quinolizinyI --.

Column 3,  
Line 55: replace "quinazolyinyI" with -- quinazolinyl --.



UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 6,214,865 B1  
APPLICATION NO. : 09/334488  
DATED : April 10, 2001  
INVENTOR(S) : Littlefield et al.

Page 2 of 41

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

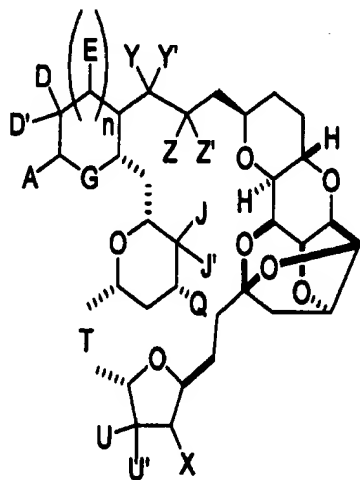
Column 4,  
Line 17: replace "embodiment includes" with  
-- embodiments include --.

Column 4,  
Lines 22-23: replace " $\text{NR}_2(\text{CO})\text{R}_1$ ,  $\text{NR}_2(\text{CO})\text{R}_1$ " with --  $\text{NR}_2(\text{CO})\text{R}_1$ , --.

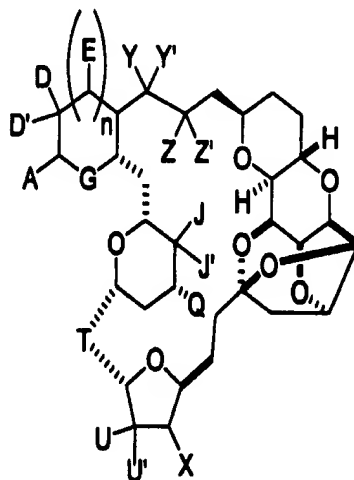
Column 4,  
Line 40: replace "B13939" with -- B1939 --.

Column 4,  
Line 57: replace ", B13939" with -- , B1939 --.

Column 5,  
Line 20: the drawing labeled "Formula 1-A"



should be



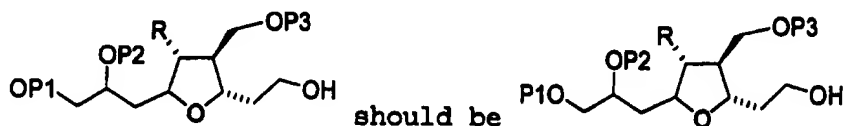
UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 6,214,865 B1  
APPLICATION NO. : 09/334488  
DATED : April 10, 2001  
INVENTOR(S) : Littlefield et al.

Page 3 of 41

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 5,  
Line 42: the drawing labeled "Formula (II)"



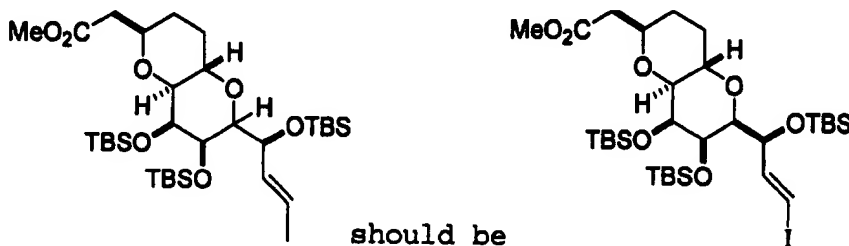
Column 5,  
Line 63: replace "9-fluorenylinethyl" with -- 9-fluorenylmethyl --.

Column 6,  
Line 9: replace "O-nitrobenzyl" with -- *o*-nitrobenzyl --.

Column 6,  
Line 26: replace "1,1,3,3-tetra-isopropylidisiloxanylidene" with  
-- 1,1,3,3-tetra-isopropylidisiloxanylidene --.

Column 6,  
Line 52: replace "Scola, M." with -- Scola, P.M. --.

Column 7,  
Line 1: the drawing labeled "XF3"



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PATENT NO. : 6,214,865 B1  
APPLICATION NO. : 09/334488  
DATED : April 10, 2001  
INVENTOR(S) : Littlefield et al.

Page 4 of 41

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

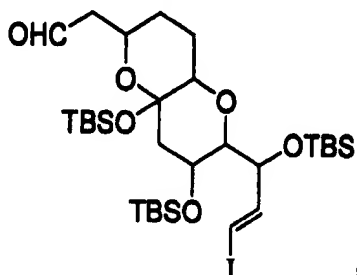
Column 7,  
Line 42: replace "p-F—PhMgBr" with -- p-F-PhMgBr --.

Column 8,  
Line 2: replace "furnished key fragment 1" with  
-- furnished key fragment F1 --.

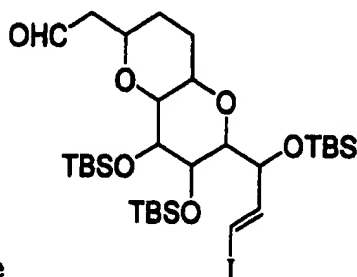
Column 8,  
Line 8: replace "fluorinated key fragment 1 was obtained" with  
-- fluorinated key fragment F1 was obtained --.

Column 8,  
Line 18: replace "homoallylic alcohol 33" with  
-- homoallylic alcohol 33a --.

Column 8,  
Line 55: the drawing labeled "F-3"



should be



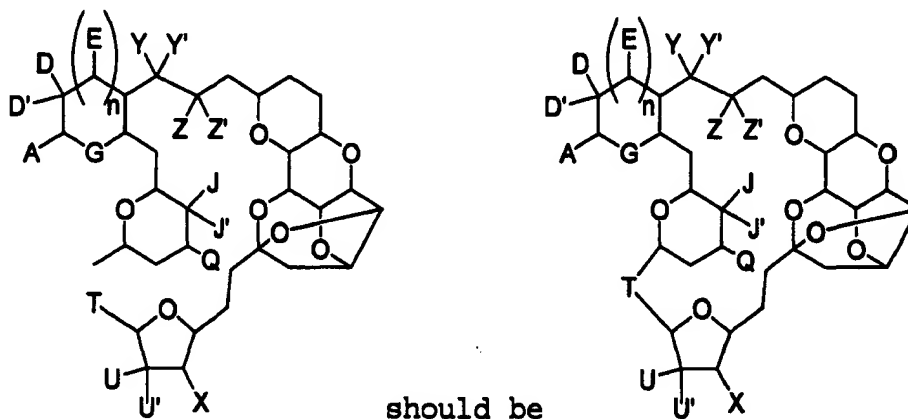
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**CERTIFICATE OF CORRECTION**

PATENT NO. : 6,214,865 B1  
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DATED : April 10, 2001  
INVENTOR(S) : Littlefield et al.

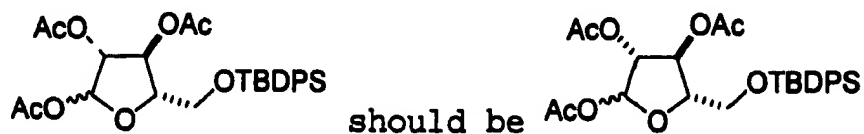
Page 5 of 41

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

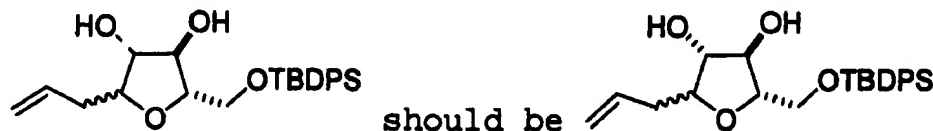
Column 9,  
Line 2: the drawing labeled "4, Formula (I)"



Column 9,  
Line 55: the drawing labeled "2"



Column 9,  
Line 60: the drawing labeled "4a,4b"



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**CERTIFICATE OF CORRECTION**

PATENT NO. : 6,214,865 B1  
APPLICATION NO. : 09/334488  
DATED : April 10, 2001  
INVENTOR(S) : Littlefield et al.

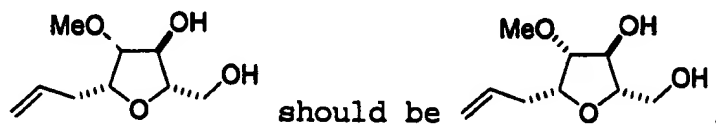
Page 6 of 41

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

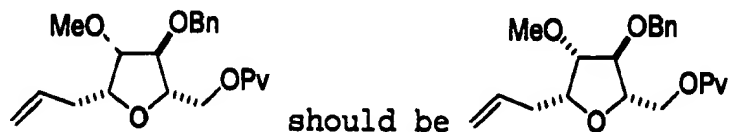
Column 9,  
Line 60: the reagent

 **3) MeI** should be  **3) MeI** .

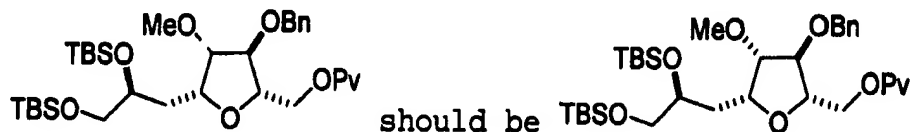
Column 10,  
Line 1: the drawing labeled "7"



Column 10,  
Line 10: the drawing labeled "9"



Column 10,  
Line 15: the drawing labeled "11"



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**CERTIFICATE OF CORRECTION**

PATENT NO. : 6,214,865 B1  
APPLICATION NO. : 09/334488  
DATED : April 10, 2001  
INVENTOR(S) : Littlefield et al.

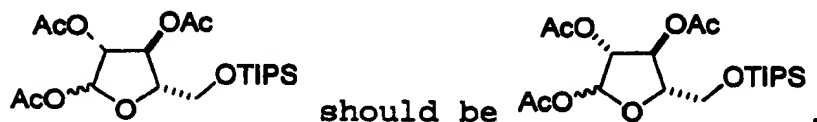
Page 7 of 41

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

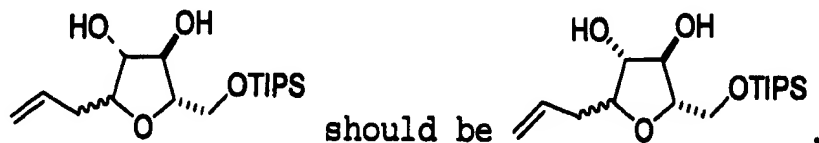
Column 10,  
Line 21: the reagent



Column 10,  
Line 45: the drawing labeled "XX14"



Column 10,  
Line 52: the drawing labeled "XX15"



Column 10,  
Line 55: the reagent



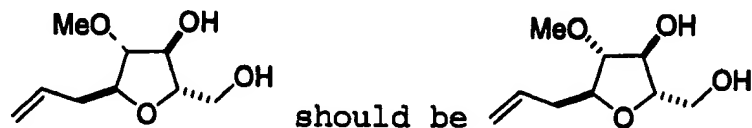
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**CERTIFICATE OF CORRECTION**

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DATED : April 10, 2001  
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Page 8 of 41

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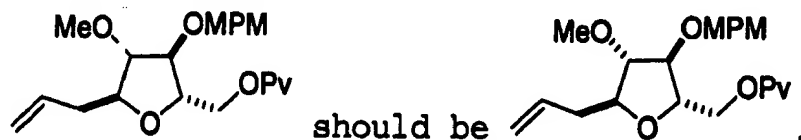
Column 10,  
Line 60: the drawing labeled "XX16"



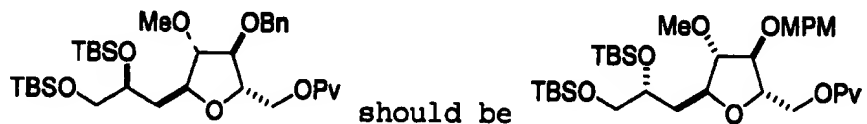
Column 10,  
Line 63: the reagent



Column 11,  
Line 1: the drawing labeled "XX17"



Column 11,  
Line 9: the drawing labeled "XX18"



Column 11,  
Line 16: the reagent



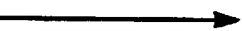

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 6,214,865 B1  
APPLICATION NO. : 09/334488  
DATED : April 10, 2001  
INVENTOR(S) : Littlefield et al.

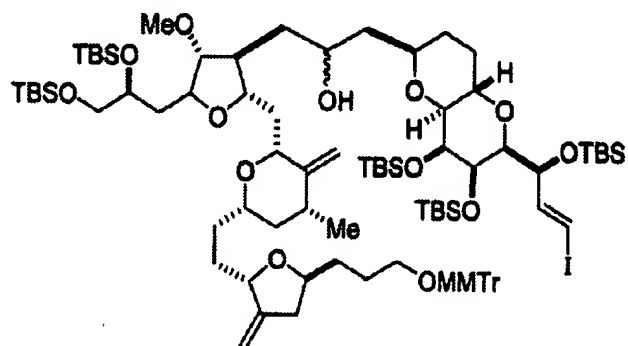
Page 9 of 41

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

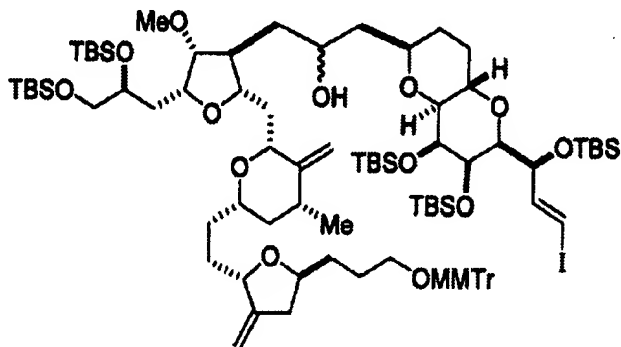
Column 12,  
Line 1: the reagent

 7) MPMOTCl  should be 7) MPMOTCl .

Column 13,  
Line 1: the drawing labeled "B2307, B2308"



should be





UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

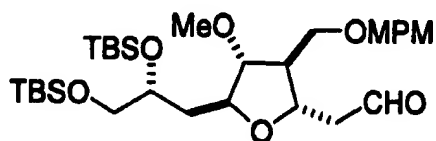
PATENT NO. : 6,214,865 B1  
APPLICATION NO. : 09/334488  
DATED : April 10, 2001  
INVENTOR(S) : Littlefield et al.

Page 10 of 41

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

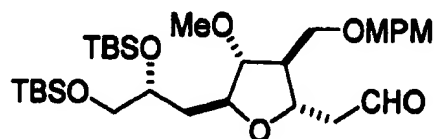
Column 13,

Line 20: the drawing labeled "X20" should be labeled -- XX20 -- as follows:



X20

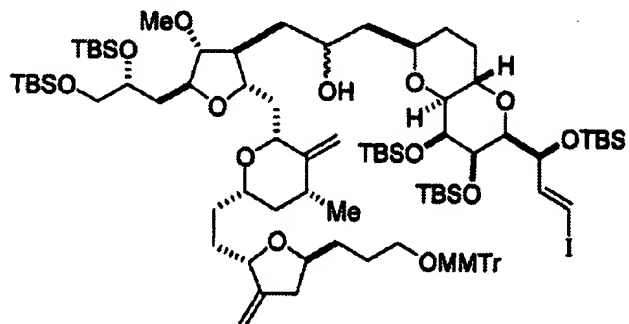
should be



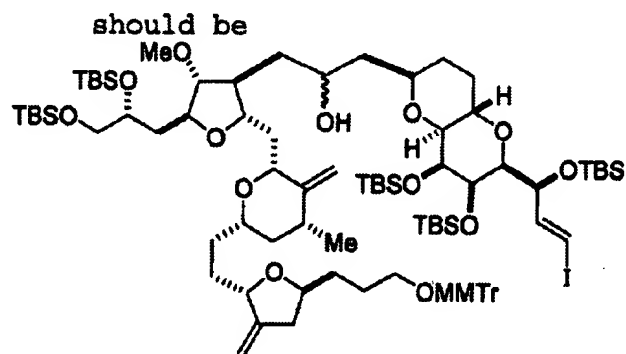
XX20

Column 15,

Line 1: the drawing labeled "BX2308" should be labeled -- BX2307, BX2308 -- as follows:



BX2308



BX2307. BX2308

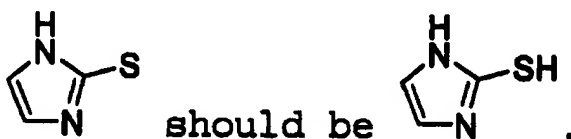
UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 6,214,865 B1  
APPLICATION NO. : 09/334488  
DATED : April 10, 2001  
INVENTOR(S) : Littlefield et al.

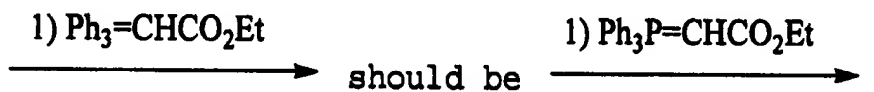
Page 11 of 41

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

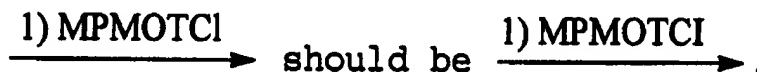
Column 21,  
Line 1: the reagent



Column 21,  
Line 60: the reagent



Column 22,  
Line 60: the reagent



Column 23,  
Line 45: the reagent



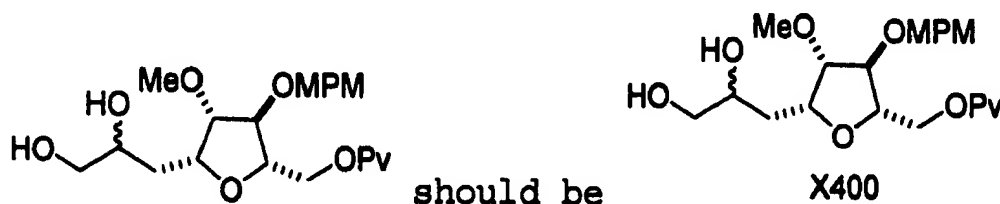
UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 6,214,865 B1  
APPLICATION NO. : 09/334488  
DATED : April 10, 2001  
INVENTOR(S) : Littlefield et al.

Page 12 of 41

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

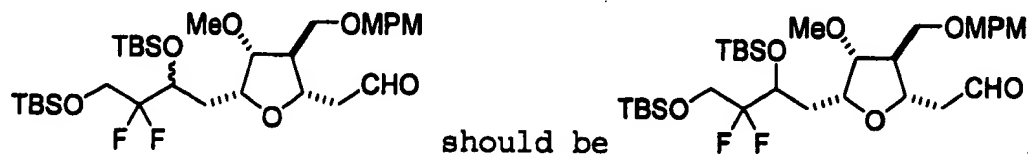
Column 24,  
Line 20: the unlabeled drawing should be labeled as -- X400 -- as follows:



Column 24,  
Line 45: the reagent



Column 24,  
Line 55: the drawing labeled "X412" should be labeled -- X412A, X412B --.  
Additionally, the drawing labeled "X412"



UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

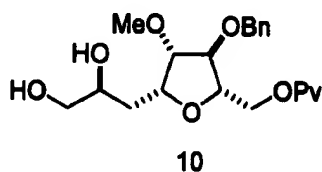
PATENT NO. : 6,214,865 B1  
APPLICATION NO. : 09/334488  
DATED : April 10, 2001  
INVENTOR(S) : Littlefield et al.

Page 13 of 41

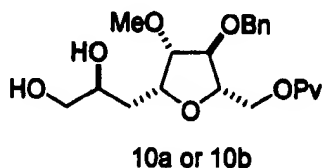
It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 25,

Line 2: the drawing labeled “10” should be labeled -- 10a or 10b -- as follows:



should be



**10a or 10b**

Column 25,

Line 34: the reagent



Column 26,

Line 15: the reagent



UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

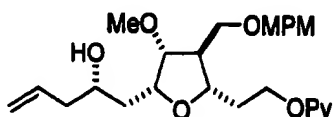
PATENT NO. : 6,214,865 B1  
APPLICATION NO. : 09/334488  
DATED : April 10, 2001  
INVENTOR(S) : Littlefield et al.

Page 14 of 41

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

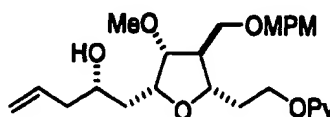
Column 26,

Line 35: the drawing labeled "33" should be labeled -- 33a -- as follows:



33

should be



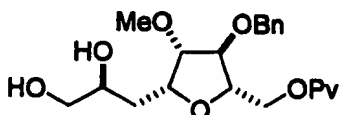
33a

Column 29,

Line 63: replace "BF<sub>3</sub> · OEt<sub>2</sub>" with -- BF<sub>3</sub> · OEt<sub>2</sub> --.

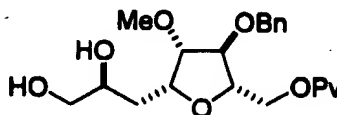
Column 32,

Line 35: the drawing labeled "10" should be labeled -- 10a or 10b -- as follows:



10

should be



10a or 10b

Column 32,

Line 39: replace "Diol 10" with -- Diol 10a or 10b --.

Column 32,

Line 44: replace "Na<sub>2</sub>S<sub>2</sub>O<sub>5</sub> · 5 H<sub>2</sub>O" with -- Na<sub>2</sub>S<sub>2</sub>O<sub>5</sub> · 5H<sub>2</sub>O --.

Column 32,

Line 49: replace "diol 10" with -- diol 10a or 10b --.

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

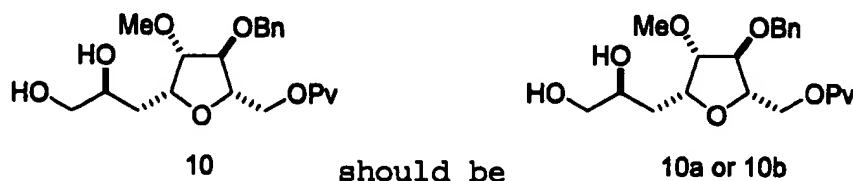
PATENT NO. : 6,214,865 B1  
APPLICATION NO. : 09/334488  
DATED : April 10, 2001  
INVENTOR(S) : Littlefield et al.

Page 15 of 41

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 32,

Line 55: the drawing labeled "10" should be labeled -- 10a or 10b -- as follows:



Column 32,

Line 66: replace "diol 10" with -- diol 10a or 10b --.

Column 34,

Line 20: replace " $\text{NaBO}_3 \cdot 4 \text{H}_2\text{O}$ " with --  $\text{NaBO}_3 \cdot 4\text{H}_2\text{O}$  --.

Column 34,

Line 45: replace "0.021 mmol" with -- 0.021 mol --.

Column 35,

Line 5: the reagent



Column 35,

Line 18: replace " $\text{BF}_3 \cdot \text{OEt}_2$ " with --  $\text{BF}_3 \cdot \text{OEt}_2$  --.

Column 35,

Line 22: replace " $\text{BF}_3 \cdot \text{OEt}_2$ " with --  $\text{BF}_3 \cdot \text{OEt}_2$  --.

Column 36,

Line 53: replace " $\text{NaBO}_3 \cdot 4 \text{H}_2\text{O}$ " with --  $\text{NaBO}_3 \cdot 4\text{H}_2\text{O}$  --.

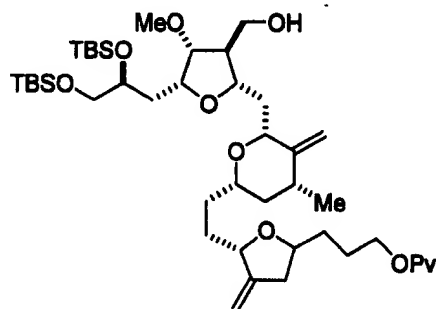
UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 6,214,865 B1  
APPLICATION NO. : 09/334488  
DATED : April 10, 2001  
INVENTOR(S) : Littlefield et al.

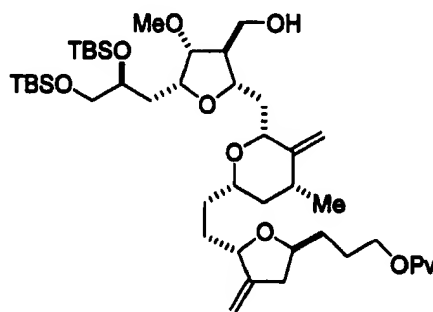
Page 16 of 41

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

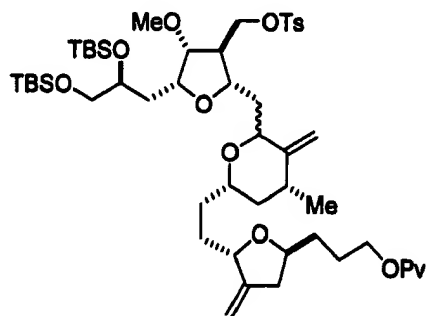
Column 39,  
Line 1: the drawing labeled "B2317"



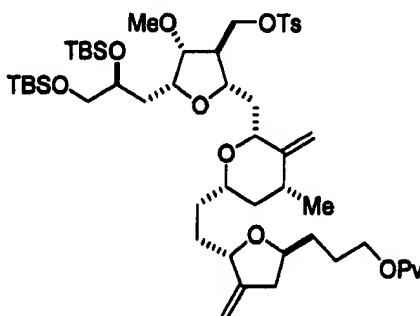
should be



Column 39,  
Line 50: the drawing labeled "B2316"



should be



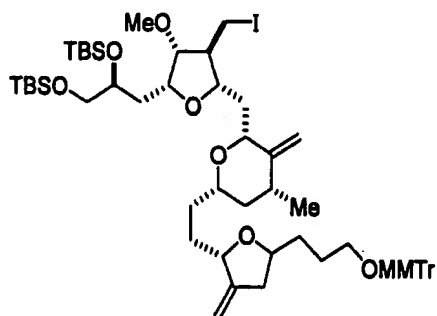
UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 6,214,865 B1  
APPLICATION NO. : 09/334488  
DATED : April 10, 2001  
INVENTOR(S) : Littlefield et al.

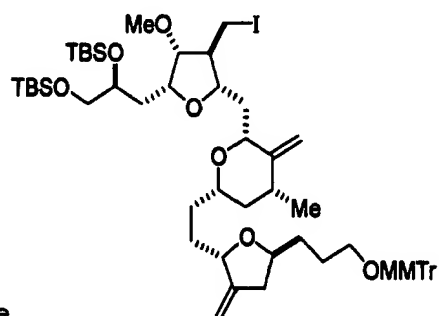
Page 17 of 41

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 41,  
Line 25: the drawing labeled "B2313"



should be



Column 42,  
Line 17: replace "B2308" with -- B2307 and B2308 --.



UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

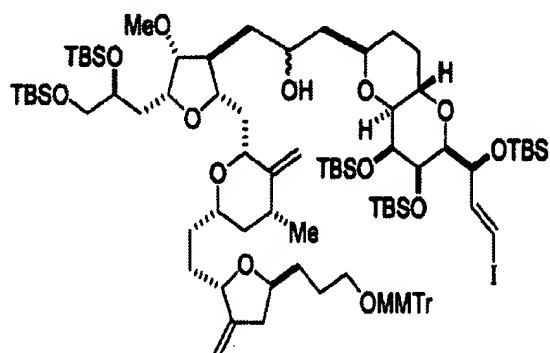
PATENT NO. : 6,214,865 B1  
APPLICATION NO. : 09/334488  
DATED : April 10, 2001  
INVENTOR(S) : Littlefield et al.

Page 18 of 41

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

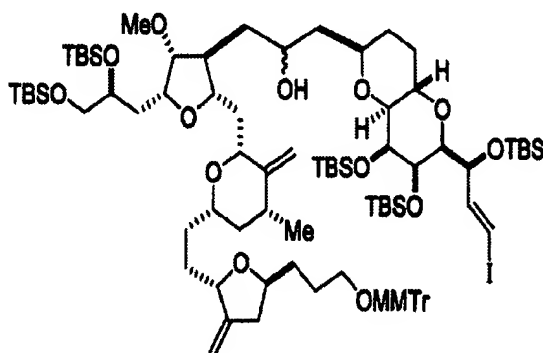
Column 42,

Line 35: the drawing labeled "B2308" should be labeled -- B2307, B2308 -- as follows:



B2308

should be



B2307, B2308

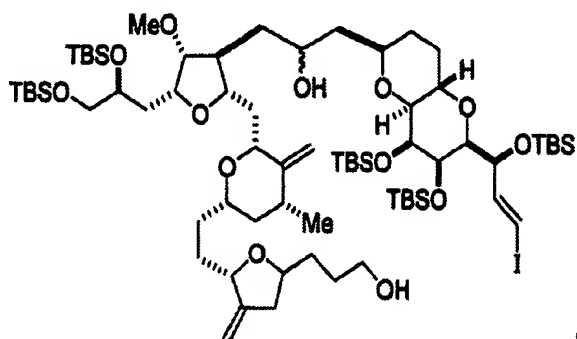
UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 6,214,865 B1  
APPLICATION NO. : 09/334488  
DATED : April 10, 2001  
INVENTOR(S) : Littlefield et al.

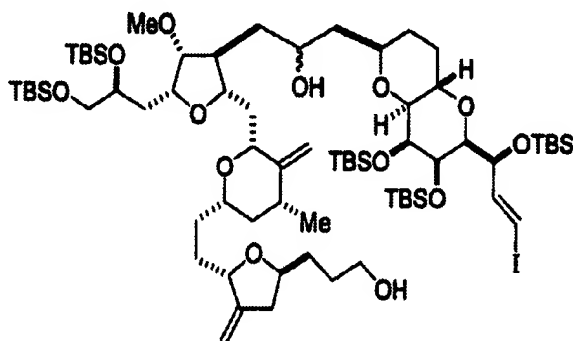
Page 19 of 41

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 42,  
Line 45: the drawing labeled "B2305, B2306"



should be



Column 44,  
Line 21: replace "alcohol, 2.4 g mg," with -- alcohol, 2.4 g, --.

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 6,214,865 B1  
APPLICATION NO. : 09/334488  
DATED : April 10, 2001  
INVENTOR(S) : Littlefield et al.

Page 20 of 41

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

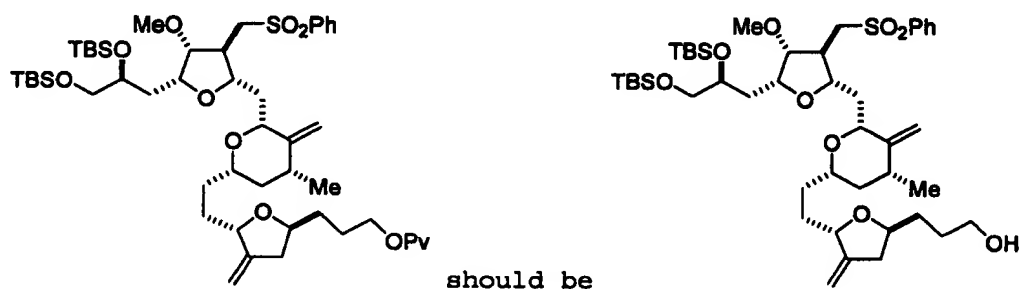
Column 44,  
Line 22: replace "triflic anhydride" with -- methanesulfonyl anhydride --.

Column 44,  
Line 24: replace "chromatographed" with -- chromatographed --.

Column 44,  
Line 61: replace "DMF, 0.06 mL," with -- DMF, 0.5 mL, --.

Column 45,  
Lines 39-40: replace  
"N-methylmorpholine oxide (NMO), and then a solution of 1.02 g,  
tetrapropylammonium perruthenate"  
with  
-- N-methylmorpholine oxide (NMO) (1.02 g), and then a solution of  
tetrapropylammonium perruthenate --.

Column 46,  
Line 30: the drawing labeled "ER804028"



Column 49,  
Line 26: replace "SmI reagent, 0.05 mL, as added" with  
-- SmI<sub>2</sub> reagent, 0.05 mL, was added --.

Column 54,  
Line 21: replace (Schemes 3 and 5) with -- (Schemes 4 and 6) --.

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 6,214,865 B1  
APPLICATION NO. : 09/334488  
DATED : April 10, 2001  
INVENTOR(S) : Littlefield et al.

Page 21 of 41

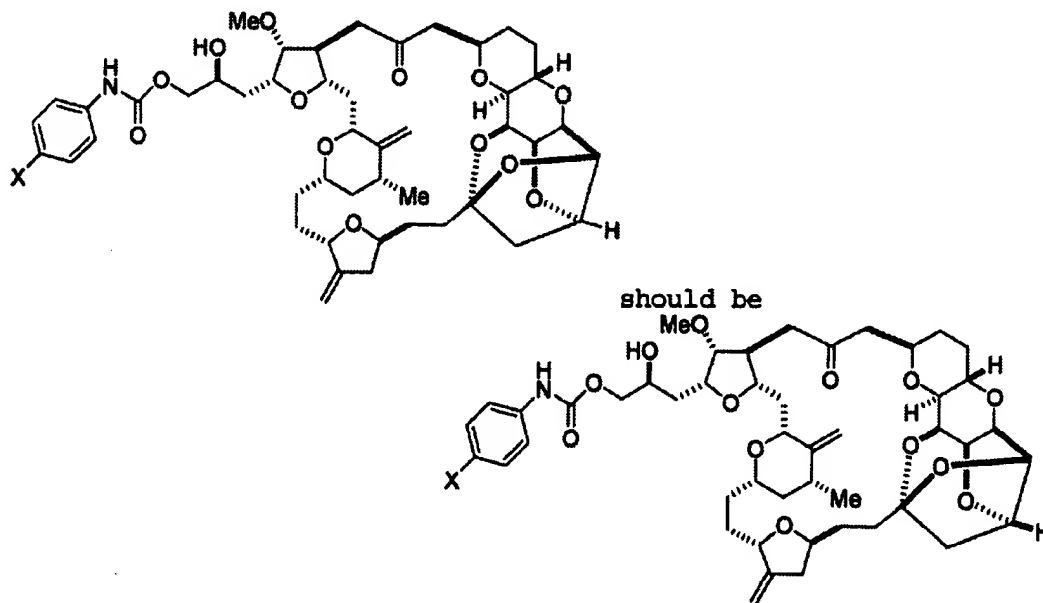
It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 54,  
Lines 22-23: replace (see schemes 4 and 5) with -- (see schemes 3 and 5) --.

Column 56,  
Line 40: the reagent



Column 59,  
Line 1: the drawing labeled "B1984, B1990, B1992"



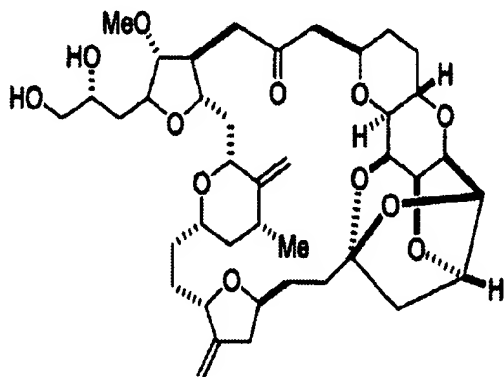
UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 6,214,865 B1  
APPLICATION NO. : 09/334488  
DATED : April 10, 2001  
INVENTOR(S) : Littlefield et al.

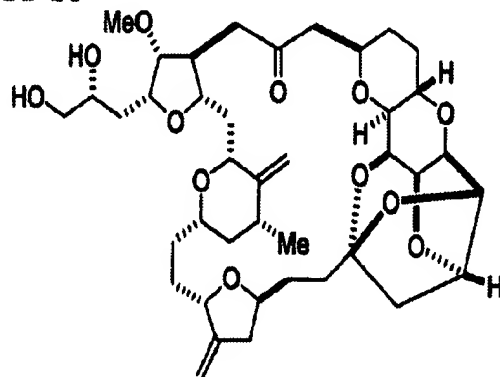
Page 22 of 41

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 60,  
Line 40: The drawing labeled "B2042"



should be



Column 62,  
Lines 7-8: replace "Found: 753.3969" with -- Found: 755.3969 --.

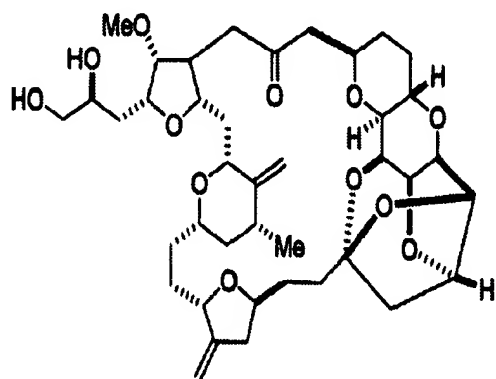
UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 6,214,865 B1  
APPLICATION NO. : 09/334488  
DATED : April 10, 2001  
INVENTOR(S) : Littlefield et al.

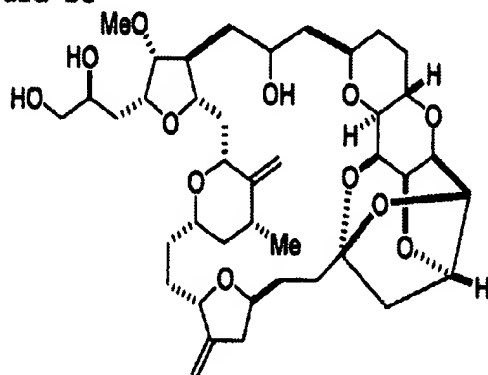
Page 23 of 41

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 62,  
Line 10: the drawing labeled "B1896, B1897"



should be



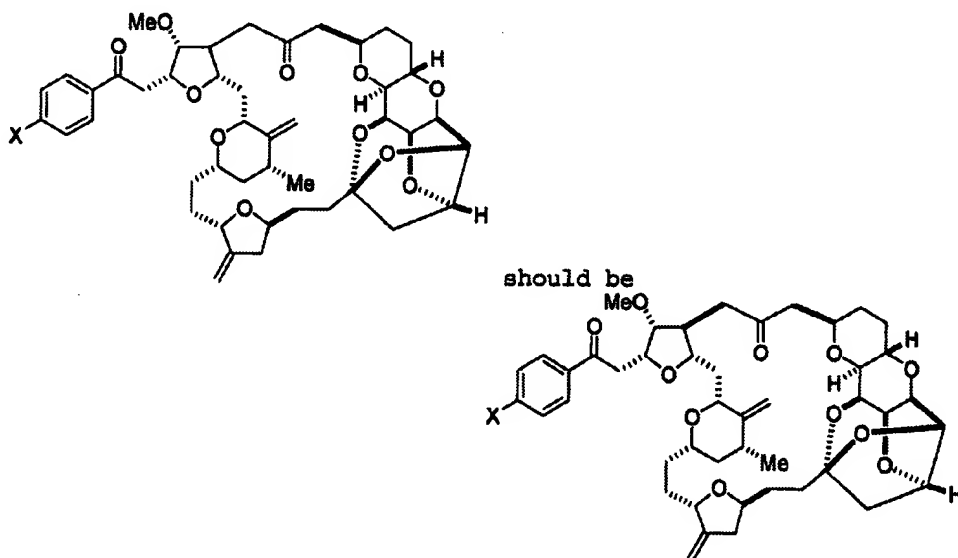
UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 6,214,865 B1  
APPLICATION NO. : 09/334488  
DATED : April 10, 2001  
INVENTOR(S) : Littlefield et al.

Page 24 of 41

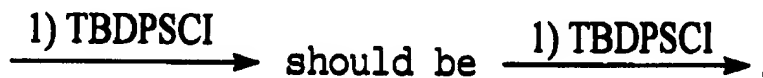
It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 67,  
Line 1: the drawing labeled "B2011, B2008"



Column 71,  
Line 41: replace "897.3521. Found: 897.3533." with  
-- 879.3521. Found: 879.3533. --.

Column 72,  
Line 45: the reagent



UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 6,214,865 B1  
APPLICATION NO. : 09/334488  
DATED : April 10, 2001  
INVENTOR(S) : Littlefield et al.

Page 25 of 41

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 72,  
Line 45: the reagent

$\xrightarrow{\quad}$  3) DBAF should be 3) TBAF  $\xrightarrow{\quad}$  .

Column 78,  
Line 30: replace " $\text{C}_{50}\text{H}_{64}\text{N}_2\text{O}_{12}+\text{Na}$ " with --  $\text{C}_{50}\text{H}_{64}\text{N}_2\text{O}_{13}+\text{Na}$  --.

Column 78,  
Line 46: replace " $\text{C}_{49}\text{H}_{65}\text{NO}_{13}+\text{Na}$ " with --  $\text{C}_{50}\text{H}_{69}\text{NO}_{15}+\text{Na}$  --.

Column 79,  
Line 25: replace "a 1:9 mixture" with -- a 9:1 mixture --.

Column 79,  
Line 28: replace "Found: 884.4012" with -- Found: 882.4012 --.

Column 81,  
Line 40: the reagent

$\xrightarrow{\quad}$  1)  $\text{Ph}_3\text{=CHCO}_2\text{Et}$  should be 1)  $\text{Ph}_3\text{P=CHCO}_2\text{Et}$   $\xrightarrow{\quad}$  .

Column 83,  
Line 35: the reagent

$\xrightarrow{\quad}$  MPMOTCI should be MPMOTCI  $\xrightarrow{\quad}$  .

Column 83,  
Line 54: replace " $\text{BF}_3 \cdot \text{OEt}_2$ " with --  $\text{BF}_3 \cdot \text{OEt}_2$  --.



UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 6,214,865 B1  
APPLICATION NO. : 09/334488  
DATED : April 10, 2001  
INVENTOR(S) : Littlefield et al.

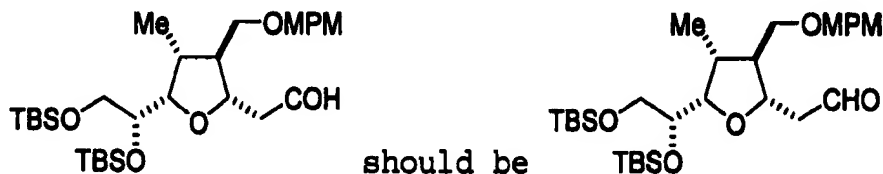
Page 26 of 41

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

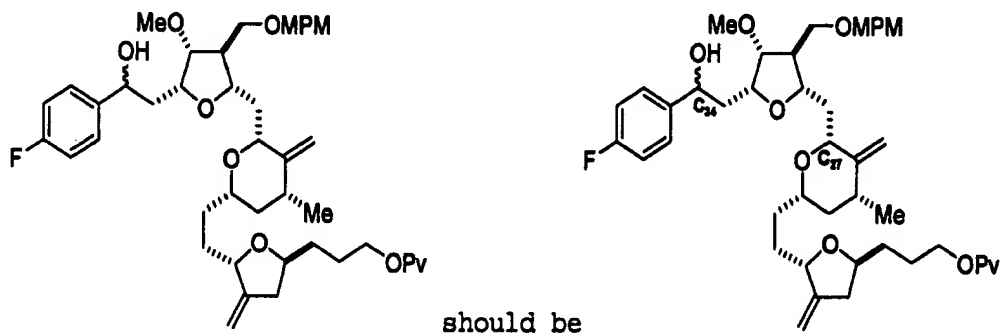
Column 84,  
Line 28: replace "TsOH . H<sub>2</sub>O" with -- TsOH • H<sub>2</sub>O --.

Column 84,  
Line 30: replace "TsOH . H<sub>2</sub>O" with -- TsOH • H<sub>2</sub>O --.

Column 86,  
Line 1: the drawing labeled "114"



Column 90,  
Line 1: the drawing labeled "203"



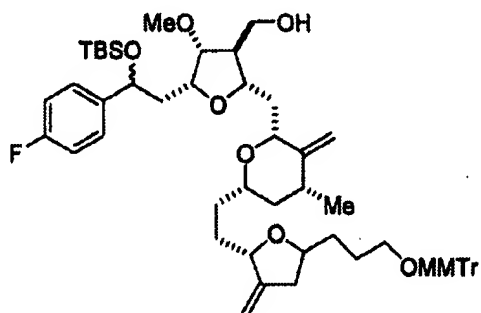
UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 6,214,865 B1  
APPLICATION NO. : 09/334488  
DATED : April 10, 2001  
INVENTOR(S) : Littlefield et al.

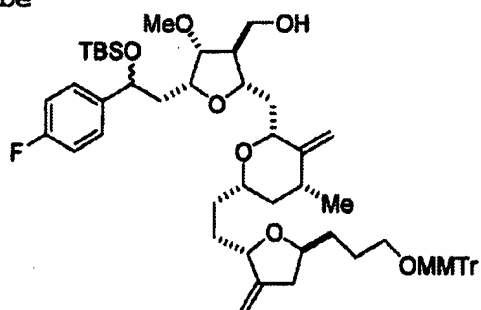
Page 27 of 41

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 93,  
Line 5: the drawing labeled "207"



should be



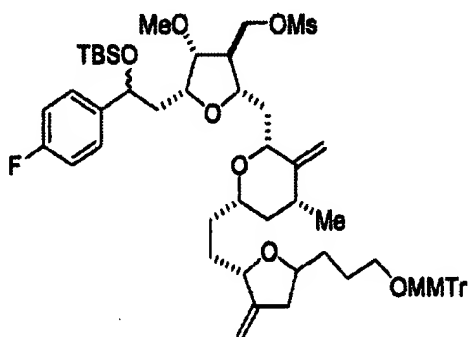
UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 6,214,865 B1  
APPLICATION NO. : 09/334488  
DATED : April 10, 2001  
INVENTOR(S) : Littlefield et al.

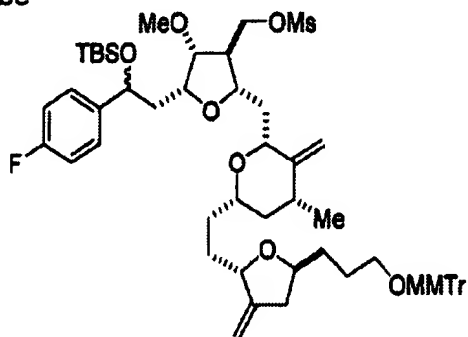
Page 28 of 41

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 93,  
Line 25: the drawing labeled "208A and 208B"



should be



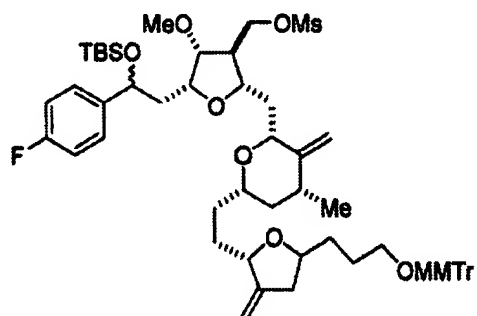
UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

**PATENT NO.** : 6,214,865 B1  
**APPLICATION NO.** : 09/334488  
**DATED** : April 10, 2001  
**INVENTOR(S)** : Littlefield et al.

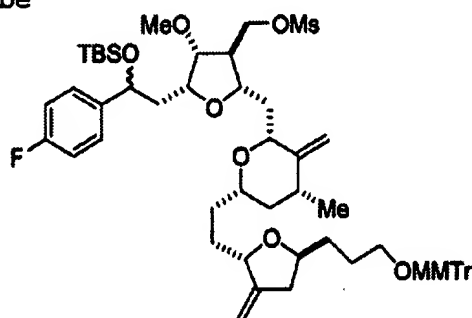
Page 29 of 41.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 93,  
Line 50: the drawing labeled “208A and 208B”



should be



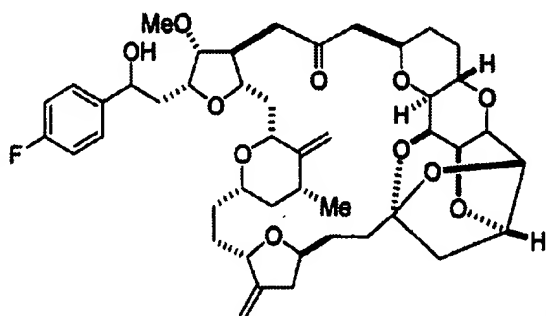
UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 6,214,865 B1  
APPLICATION NO. : 09/334488  
DATED : April 10, 2001  
INVENTOR(S) : Littlefield et al.

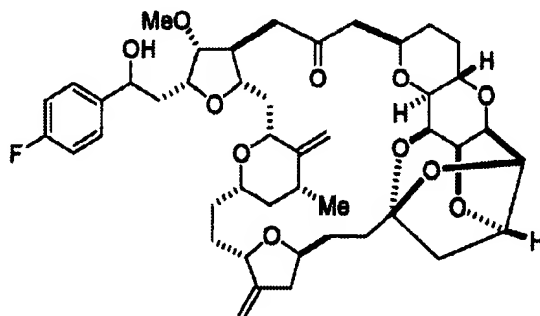
Page 30 of 41

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 94,  
Line 1: the drawing labeled "B2039, B2043"



should be



Column 94,  
Line 43: replace "warn" with -- warm --.

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 6,214,865 B1  
APPLICATION NO. : 09/334488  
DATED : April 10, 2001  
INVENTOR(S) : Littlefield et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 94,

Line 60: the drawing labeled "20" should be -- X-20 -- as follows:



Column 96,

Lines 4-5: replace "NaBO<sub>3</sub>·4 H<sub>2</sub>O" with -- NaBO<sub>3</sub> · 4H<sub>2</sub>O --.

Column 96,

Line 35: the reagent



Column 96,

Line 44: replace "BF<sub>3</sub> · OEt<sub>2</sub>" with -- NaBO<sub>3</sub> · OEt<sub>2</sub> --.

Column 97,

Line 59: replace "NaBO<sub>3</sub> · 4 H<sub>2</sub>O" with -- NaBO<sub>3</sub> · 4H<sub>2</sub>O --.

Column 98,

Line 58: replace "BF<sub>3</sub> · OEt<sub>2</sub>" with -- BF<sub>3</sub> · OEt<sub>2</sub> --.

Column 99,

Line 50: replace "Na<sub>2</sub>S<sub>2</sub>O<sub>5</sub> · 5H<sub>2</sub>O" with -- Na<sub>2</sub>S<sub>2</sub>O<sub>5</sub> · 5H<sub>2</sub>O --.

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

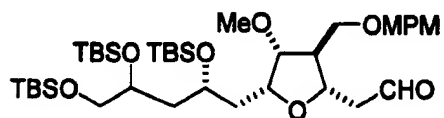
PATENT NO. : 6,214,865 B1  
APPLICATION NO. : 09/334488  
DATED : April 10, 2001  
INVENTOR(S) : Littlefield et al.

Page 32 of 41

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

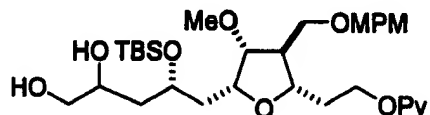
Column 101,

Line 1: replace the drawing labeled "38" with the drawing labeled -- 35a, 35b -- as follows:



38

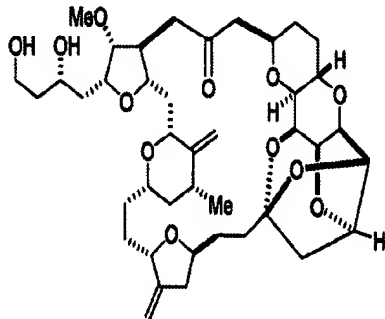
should be



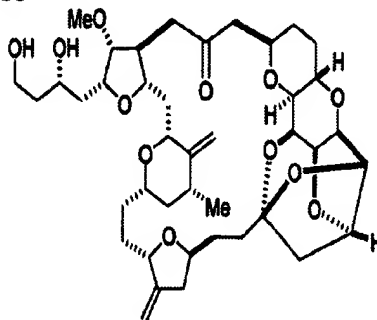
35a, 35b

Column 103,

Line 1: the drawing labeled "B2091"



should be



UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 6,214,865 B1  
APPLICATION NO. : 09/334488  
DATED : April 10, 2001  
INVENTOR(S) : Littlefield et al.

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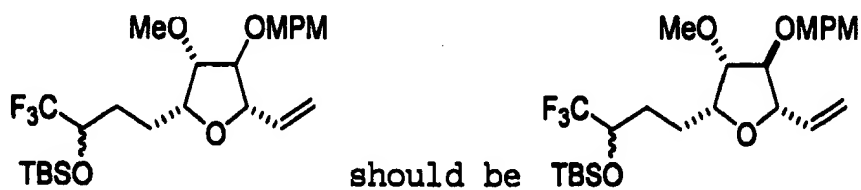
It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 103,

Line 64: replace "NaBO<sub>3</sub> . 4 H<sub>2</sub>O" with -- NaBO<sub>3</sub> • 4H<sub>2</sub>O --.

Column 106,

Line 60: the drawing labeled "309"

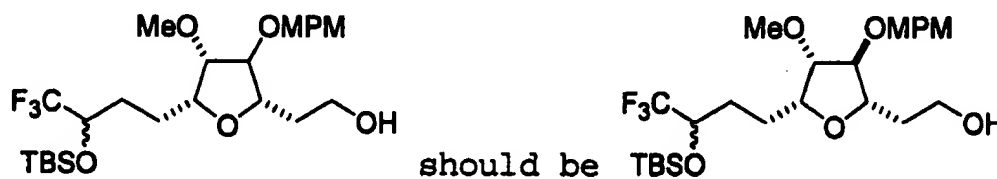


Column 107,

Line 14: replace "NaBO<sub>3</sub> . 4 H<sub>2</sub>O" with -- NaBO<sub>3</sub> • 4H<sub>2</sub>O --.

Column 107,

Line 20: the drawing labeled "310"





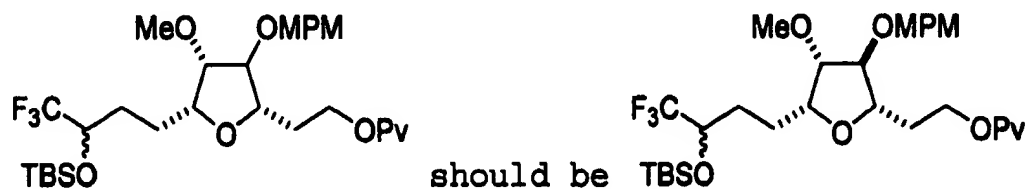
UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 6,214,865 B1  
APPLICATION NO. : 09/334488  
DATED : April 10, 2001  
INVENTOR(S) : Littlefield et al.

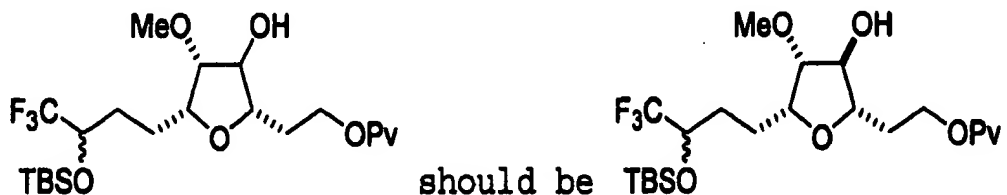
Page 34 of 41

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 107,  
Line 50: the drawing labeled "311"



Column 108,  
Line 12: the drawing labeled "312"



Column 109,  
Line 23: replace "NaBO<sub>3</sub> · 4 H<sub>2</sub>O" with -- NaBO<sub>3</sub> · 4H<sub>2</sub>O --.

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 6,214,865 B1  
APPLICATION NO. : 09/334488  
DATED : April 10, 2001  
INVENTOR(S) : Littlefield et al.

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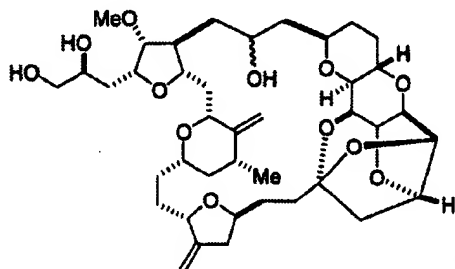
It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 110,  
Line 5: the reagent

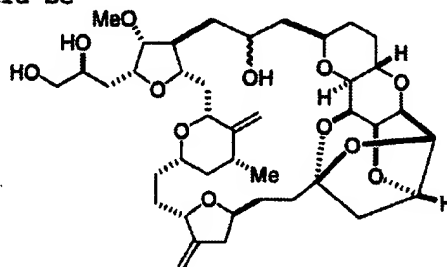
MPMOTCI → should be MPMOTCI .

Column 110,  
Line 26: replace "BF<sub>3</sub> . OEt<sub>2</sub>" with -- BF<sub>3</sub> • OEt<sub>2</sub> --.

Column 111,  
Line 31: the drawing labeled "B1897" should be labeled -- B1896, B1897 --.  
Additionally, the drawing labeled "B1897"



should be



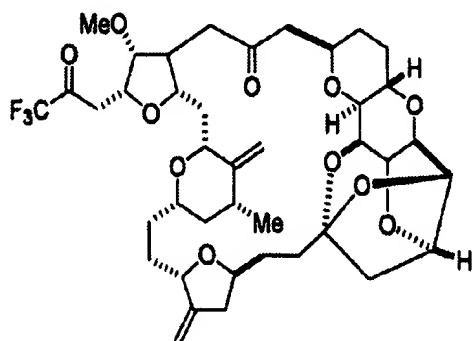
UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 6,214,865 B1  
APPLICATION NO. : 09/334488  
DATED : April 10, 2001  
INVENTOR(S) : Littlefield et al.

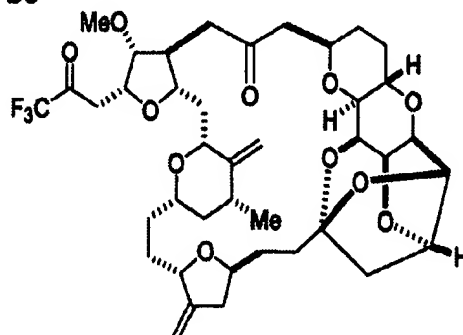
Page 36 of 41

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 112,  
Line 31: the drawing labeled "B1942"



should be



Column 113,  
Line 1: replace "A mixture of B1897" with -- A mixture of B1896/B1897 --.

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 6,214,865 B1  
APPLICATION NO. : 09/334488  
DATED : April 10, 2001  
INVENTOR(S) : Littlefield et al.

Page 37 of 41

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

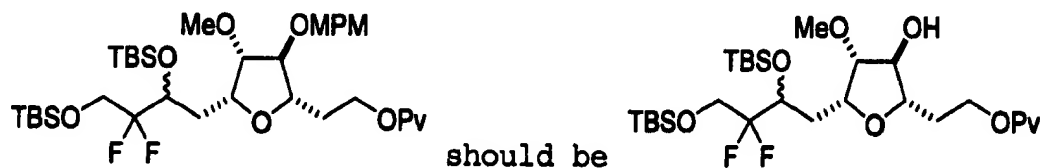
Column 113,  
Line 29: replace "finish" with -- furnish --.

Column 113,  
Line 30: replace " $C_{40}H_{55}F_3O_{11} + H$ " with --  $C_{40}H_{53}F_3O_{11} + H$  --.

Column 116,  
Line 49: replace " $NaBO_3 \cdot 4H_2O$ " with --  $NaBO_3 \cdot 4H_2O$  --.

Column 116,  
Lines 51-52: replace " $NaBO_3 \cdot 4H_2O$ " with --  $NaBO_3 \cdot 4H_2O$  --.

Column 117,  
Line 25: the drawing labeled "408"



UNITED STATES PATENT AND TRADEMARK OFFICE  
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DATED : April 10, 2001  
INVENTOR(S) : Littlefield et al.

Page 38 of 41

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

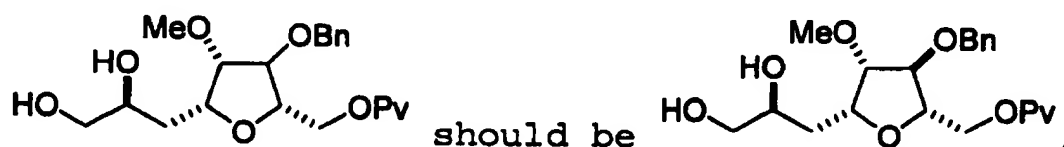
Column 117,  
Line 56: replace "TMF" with -- THF --.

Column 118,  
Line 21: replace "NaBO<sub>3</sub> . 4H<sub>2</sub>O" with -- NaBO<sub>3</sub> • 4H<sub>2</sub>O --.

Column 119,  
Line 26: replace "BF<sub>3</sub> . OEt<sub>2</sub>" with -- BF<sub>3</sub> • OEt<sub>2</sub> --.

Column 119,  
Lines 42-43: replace  
"412B (46 mg, 36% for 2 steps) as a ~9:1 mixture of C34 isomers"  
with  
-- 412B:412A (46 mg, 36% for 2 steps) as a ~9:1 mixture of C34 isomers --.

Column 120,  
Line 10: the label in the drawing labeled "10" should be -- 10a or 10B --. Additionally,  
the drawing labeled "10"



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INVENTOR(S) : Littlefield et al.

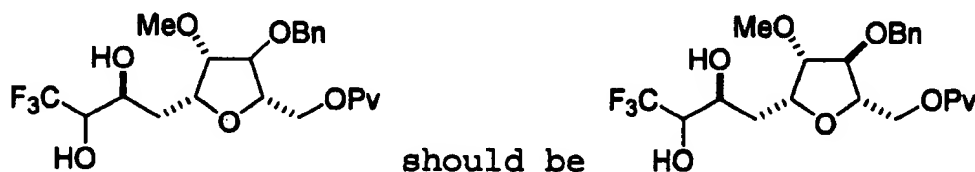
Page 39 of 41

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 120,  
Line 26: replace "diol 10" with -- diol 10a or 10b --.

Column 120,  
Line 36: replace "TMF" with -- THF --.

Column 121,  
Line 9: the unlabeled drawing should be labeled -- 501 --. Additionally, the unlabeled drawing



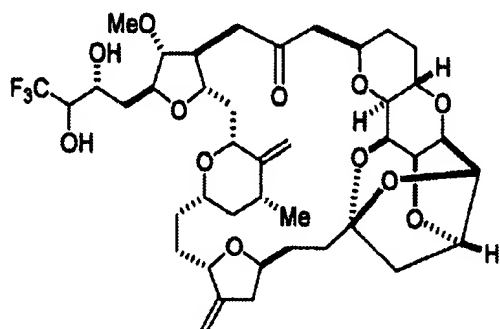
UNITED STATES PATENT AND TRADEMARK OFFICE  
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PATENT NO. : 6,214,865 B1  
APPLICATION NO. : 09/334488  
DATED : April 10, 2001  
INVENTOR(S) : Littlefield et al.

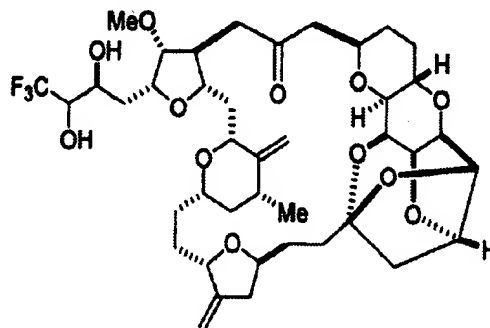
Page 40 of 41

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 122,  
Line 9: the drawing labeled "B1963"



should be



Column 127,  
Line 39: replace "fall range" with -- full range --.

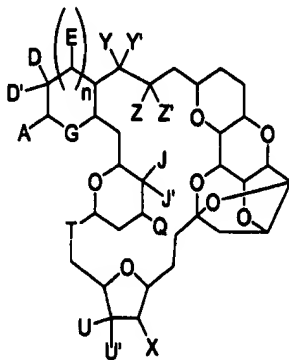
UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 6,214,865 B1  
APPLICATION NO. : 09/334488  
DATED : April 10, 2001  
INVENTOR(S) : Littlefield et al.

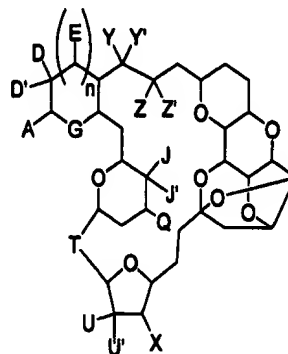
Page 41 of 41

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 129, claim 1  
Line 13: the drawing



should be



Column 130, claim 7  
Line 58: replace "7. The compound of claim 6" with  
-- 7. The compound of claim 5 --.

Column 131, claim 16  
Line 19: replace "16. The compound of claim 6" with  
-- 16. The compound of claim 5 --.

Signed and Sealed this

Twenty-second Day of January, 2008

JON W. DUDAS  
*Director of the United States Patent and Trademark Office*